

tagcatatatt gatatccaat attcttgttt atgttcgttg aatgccttga accagatgtg. 120
 tcgaacctac agcgtgtctg tgccggctgg cgatgacttt gaatttccaa actctccttg 180
 cttaagtga cttgatctcg ttcattttgt ttcccatagc aacgaacctg tatttcgtgt 240
 atttcacaag tgcacatcatgt gctgcttttt agaacaaaga atagttgtct ttcgggatgg 300
 cctttgtata ctgaaaaatt ccaacagctg gttgttggtg gatgctttgc gtgatatcac 360
 anaacatgaa aaaggacaaa gaa 383

<210> 1165
 <211> 432
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-022-Q1-E1-B6
 <400> 1165

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 aacaaagagt gtagccactt tgttttcatt gggttttaaa actgttcgaa ggcctcgcgc 120
 gagagatagt gacgattgca cgctttcgga aggagagcaa ccgaaaaaga ggaaatgcgt 180
 cgagttgtcg agctattcaa gtgatcttgg tctcaatcat aagaaactgg ataaagcgaa 240
 caacttcac aagctaaggc aatctatgga tcgtttctcg ttttccgacg aaaaccaga 300
 ggaagcgatg gaagtccgg cgtctctga tagaacgccg gaaaggcaaa ttgtttccaa 360
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 agtggttgaaa ga 432

<210> 1166
 <211> 427
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-022-Q1-E1-B7
 <400> 1166

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 cagaaccctt catattgggg ttaatatgtg ctacttgat tctggctttt attacagtga 180

aaactagaaa caagaccaac ttgcaaactc catctttttc acttcagtta ttactgtatt 240
 caatgtgaag aacttgaaca agttagtgtc tgagaattgg aaacaaatag ctagcaaaaa 300
 ctatttcgac gagaacggtt tctttatatt tgtatttgta gctttaccct tgttggtaat 360
 tggaaacttt attatgttgc acaatgggta tttggcttta caaactatca atgaaattag 420
 acgagag . 427

<210> 1167
 <211> 435
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-022-Q1-E1-B8
 <400> 1167

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 aaaatagaat caccgaatgt cttgctttat taaaaaatca acccaacaat attccttgct 120
 atatccaaca atatggaata cccgaagttg ctggtttgcg tgctttgata tggaaactgtt 180
 gcattgaaaa attctttgcg gtcgattcta ctacctcttt gcacgttgct tgttcacgt 240
 attgggaatc gatcgcaaca taccagcaac atccaaccga cgacccacta ctggatagta 300
 gtaccaccga gactgtcgtg gaccatcttc tcaaccacg tgccaacagt gcgtggcaac 360
 aatacttttc caaacaacga ttganaaaga ccattcatat ggatacagtt cgaacgcac 420
 ccgactggca tctct 435

<210> 1168
 <211> 421
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-022-Q1-E1-B9
 <400> 1168

caacatgagg aatagcgcta tggatttctt tgtatttagc attatttttg caaatgttgt 60
 tcttactatt caagcagcaa cagttttgga gactttggac tcaactgaact atacagagta 120
 tcttgacatg gtaaaggctg caggcctgaa ctcgaggttt aacgactctg ctgcgacatg 180
 gactgtgttt gcagcagaca gtacaggagt caatgccagc ttgggagcaa tgcacttggt 240

tatttcgaat atcgcatctg atgcgacgga gatcagagaa attgctgaat cttatgtcaa 300
 ccgtagaatt aagtctgatg agatttagcc aggaccaacg atccttacag ctttgtacgg 360
 aatgactttc actgttgtta aaaattcgac aggtttattt gtggatggca ttacggtgat 420
 t 421

<210> 1169
 <211> 198
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-022-Q1-E1-C1
 <400> 1169

gcttttttga caaggtcaga cctcaatcaa gtcagaaagg aacgttggtc aaacatgggtg 60
 tgggcacgcg gaatatctgc gacaactgaa gagtatctca gtaagtctac agacaagaac 120
 attgttgcca ataggatggg ttcattctgtc aaatcatcat cttccggtgt cacaatgcga 180
 ccaggttact ttgaatgg 198

<210> 1170
 <211> 275
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-022-Q1-E1-C10
 <400> 1170

tggttttttag ttttcctgga gatagttgtc attttatagc cttaggtagt ttcagagata 60
 gtagcggcaa cgtttattta tgtctgtggt ctccgcaggg cttataggat aattctcaga 120
 ggtgaaaaga aattgcgcaa ctacttgctt ttgcagacca aaagtggcgc atactactcc 180
 cttcagcgac gattcttgcg cagagttttc aagggcattc acaatgcca tcaatataca 240
 caaaactgtg aaacgggata gagccgttac tagta 275

<210> 1171
 <211> 429
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-022-Q1-E1-C11

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 ctttcaattt gagccacaca agcccgcctt cgacttggaa tttacgtatg gtccgacaaa 180
 ggctacaaga acttacgctt cttatagtgc agaacagtct cgtgtaaagc atattggtat 240
 agagcatagt tttacgtgct ttggaaagcg acagttattg gatgggactt ggttaccttc 300
 gcgagatagc tgcaacctaa agtatagctt gaatgtagac aagagacatc aactcacaag 360
 ttattttggt tttcgaaaga tatcaaaaag a 391

<210> 1174
 <211> 315
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-022-Q1-E1-C3

<400> 1174
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 cttgtcttcg tcgttcttct tattagtatg agtgaaaagg tggagaatgg tactaataac 120
 gagttgttag aaaaaccgaa ggttgatgata tttggtgctg gaggcctacg tggttatttg 180
 gctgccagac ttgcacagtg tggacgtagc tttgttcacg tcacgccag aggttctcac 240
 ttgaaagcta ttcaggaaaa taacaattgc atcgttttta aaagtatcca tggtagactgc 300
 acttcccaat tggat 315

<210> 1175
 <211> 430
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-022-Q1-E1-C6

<400> 1175
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 ccaatccac ttgtctattg aagcacactc aaggagcgaa taaagagact actgaaaaaa 120
 aaatcatgca aaaaaatcaa cccgttcacg caacatagct gttttgatgt agttgcagtt 180
 gccattggt atagaacgag cagagttgga gtttgagatg aagtagtcgt tgctcaagcg 240
 aaacatagtt gactggcatc gagatgacgc actagtata gtttcttcca atcgaggtg 300

gaataggttt tcctttaga ggctgacttg tggactgcga gattagtgtg gataaagctc 360
 ataggaagaa aattccacgt gcttcaagtt ttcgtcttga actggtgaaa aataagggtt 420
 acttggtgaa 430

<210> 1176
 <211> 429
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-022-Q1-E1-C7
 <400> 1176

cccacgcgtc cgcccacgcg tccgtatcga cggaacgctg aaagcttcgc agcaaattt 60
 cgaagagata aaaagaagga agatgaaatg cagtttagca gtaataccaa aaacgataga 120
 taatgacata atgcgaattc agcgatcctt tggtttcgag acttccattg aagcagcagc 180
 acagtcctta cgtagtatac attgtgaggc ttcattgttct taccatgcgg tggcagtgat 240
 acaagtacct ggaagaaata gcggtttttt tgcggtggag acagctttgg cttctcgttt 300
 agtcgatgct tgtcttattc cagaatttcc tttcaagttg aactcgttgt tgaatcatat 360
 ttatgaacgg gtacgagtga aaggatttgc catgattctg gtttccgatg gagcagggtca 420
 tgaatatgt 429

<210> 1177
 <211> 341
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-022-Q1-E1-C9
 <400> 1177

gagatgatgg gagtaataag ggaaggagga gtacactcga taatagggat gggaatgatg 60
 atgttattag gaagagaaag gagtaaggaa gtaaaggaga tgataaatgt gagtgtaagt 120
 gagagtggag tatggagtgg agagaagagg aagaggagtg taatgaagga ggagataaag 180
 ggagagaagg agataaggga gtggagtggg ataaggatgg aggaggagat ggtaatgata 240
 atagcatgta tggtagtcca ttggagcaat ttgaactggt atcgctgtat aacatggaga 300
 tacaaggaag ggaaatacgg acaagttaca tacgagacga a 341

<210> 1178
 <211> 430
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-022-Q1-E1-D10
 <400> 1178

cccacgcgtc cggtaatccg ttgattgggt gtgatggctc ttgtcagaag acatttcact 60
 gtgaatgtgc tcctggagat gaaagcgagc gaccaccgat agaatcaatt gagctttatg 120
 cttctgacga gagacctctt tggcagtgtc atagttgcac tagtggtgaa gatatttgtt 180
 tctcatgtgg gcgactaaga cacattgctg atgcgaatga tgctctaagg aaatgtagtt 240
 taggaagttg tggacgtttc tatcacattt cttgtgcaca acaggaacca cttgctagac 300
 tagcatcaga tggaacttgg tttaggtgtc cacaacatta ctgtgttgtt tgtgaagaat 360
 cgggtgatcc tcgtcctatg atcaagtgca tttattgtcc aagagcttgg catgtccaat 420
 gttcacatgg 430

<210> 1179
 <211> 336
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-022-Q1-E1-D11
 <400> 1179

cccacgcgtc cgcccacgcg tccgagctac cgcagtttca cctcgtccgc ctccctgcta 60
 ggcaaagaga caagaagagc attgagttac ttgcaacaag agttgagaga agaaaaacta 120
 tcaggatgga gagtggcaaa agaaacactt cgacttttgc gtattgttat atcttcagtg 180
 tcttcaagtg gtttagataa gggtgaagag gctgtcaggg agttgggaca ggaactgaca 240
 agaggttacc cacgttgttt tggtgctgag aatatgacga gaagagtact gaaagtaata 300
 cacgaagaga caagttcaga tacttcagat cctgga 336

<210> 1180
 <211> 433
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-022-Q1-E1-D12

<400> 1180

cacgcgtgca atccccgttct ctttcttagga cagctcttct agcaacaaag taaacatttg 60
caactctctg tgggaagtgc aacctgtatg cggtgacctg tgcacgata agaataatga 120
gggtgtgaaa aactactctt ttcggagtca atcagttgca tatgtcacgt gacatagtaa 180
agttttgatg tgcacgcgaa tgaagacagg ttctagttgt ctacattatg tgtaccacgc 240
tctgtaccaa agcataggca gtattagagc cgagagttct tactatgcag gacaaatgat 300
ccatttgttt gttatctatg caagtacaaa tggggcgttt ttatgcaggc gtaataagta 360
ggcatcttca ttcatttcaa gttaaggcaa ctagcagttg ggtggtgttc cacttgcata 420
tatectccaa ggg 433

<210> 1181

<211> 248

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-022-Q1-E1-D3

<400> 1181

cagacacttg ggggaattttg catatttggc accacaattc aacaattcgg tgtcgcgtgc 60
tgactacgta tctggcgtaa acgagggagt caatttgcac tttggtatga aagttcttca 120
gtgagaaacg gactcagctg gatgtgtcca tgccgattat tgctttacag attctaaagc 180
gcatatcctt agcaaaatgt cctaactgtg gatatatgaa acataccgat gcatcggcaa 240
tattcatg 248

<210> 1182

<211> 418

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-022-Q1-E1-D5

<400> 1182

cccagtaatg aggagtggag taaacagaaa aggaagtaaa aggagggat gaaggggaagt 60
tatggcaaaa acacgtgccg gcagcagcgg taaaactgtg gtagcaagcg tagagcagaa 120

gaactgggtg taaaggtcga gtagtagagt aagtgtaaaa gggaaaggaa aggagagaaa 180
gaggaaaggg atgaaatgca gagatctcta gagaaaggca agaaagaaaa gaaaggaaga 240
cacagtaaat gaggcgagaa agcataggaa gtgaaacgga ttaggaaccc gtgtagtcta 300
tgcagtaaaa gaaagaatga gtaagaaaaa agggagtcac tccaccaggg gagtaaaggc 360
gcaagaaaga aacccaaagc aattgacggg aatcggaata aggggtggat cacgtaaa 418

<210> 1183
<211> 325
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-022-Q1-E1-D6

<400> 1183

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ttgtttgtgg aagcgatgac ttcgattctt cagcacttgg gaataacaag accgaaaaca 120
cccaaaatac cgcttgcctt tcaactcagt gatggaactc cttttccagt ggcttgctcc 180
aaattatata ctgatcgaga cgtggatata tacgcgctta cgatactacc gtttgacaac 240
gaaagaaagg ctgtggtgag tgctggggac tctgccgctc acgtggttga cttgtcaaca 300
acacttgtaa ctgtnagtct cccgg 325

<210> 1184
<211> 403
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-022-Q1-E1-D7

<400> 1184

cccacgcgtc cgccacgcg tccgccacg cgtccgcca cgcgtccgga ctgcctttct 60
tgttttgtgg tggttgtcgc tttttgtctc tcaagttttt gccgaaaatg gttcaacagt 120
ggagagcagc aggtcgcact tatcttcgtt atgcaaatac atgtgcaaat tttgttcgca 180
aggcactaaa ggaaccgaaa cgaactgaag cattgtcgag gaccggtttt gagatgacga 240
gaagcgagtg gagtgaaggc aagggttgtga acagaggtaa gtccacgaac aaaactacta 300

gaacggtgat ttgatggaga caccggcaga gacccttata caagataatg aaactagtaa 360
cgtcgccaaag aattacaagt gaatgtgttt gttgttataa acg 403

<210> 1185
<211> 425
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-022-Q1-E1-D8

<400> 1185

ggaacctttg cttctaagat taaagttgac ggtgaaaagt tacaagtaac tcgagaagtg 60
gacagagggt tagaaactct gggtcgttct tagttaaccc ttttatagta ttattatcgt 120
tattgttggt tttaggaact aagacttcct gctgttggtta cttgtgattt gagactgaat 180
gagcctcggt acgctacctt acccaacata atgaaagcca agaagaagcc tgtggagaag 240
ttaggtttga aggatttgaa cttggagcct tcacatggaa tagaaactct atccgttttc 300
gaacctccga aacgacaagg tggcaacaaa gttgaaagcg tagccgagtt gatcgacaaa 360
ctgagaaatg aagccaaagt catctgattt tgaaaacata aagtaattac gtttatttcg 420
tttcc 425

<210> 1186
<211> 430
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-022-Q1-E1-D9

<400> 1186

cggacgcgtg ggaaatttta caacttgcgt ttcatagttt tggaactaac ttgacatgca 60
acaaagtaac cttcgagtag tccaatcttc tttggtggca agctttgtcc tcattctaag 120
tataatctgt gccattcatg cagtaacagc cgatgaaata acaagtttcg agagaggata 180
ccaaacagtt gcaccaactc agacgcagca atgtcaaaag atttgtgtca ccgccacaca 240
aactcaagtt caaagttgta tttatactca gacacaggct ccgttcatgt ctcaatgtgt 300
cacagcattg ccaactacct gctataaata cgtaacaaaa tataagcagg tgtgctgtga 360
gcaagaatac gagcaacaga attatcaaca gcagcaggtt tgtcaacagt attgccaact 420

atcgtaccag

430

<210> 1187
<211> 278
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-022-Q1-E1-E1

<400> 1187

cgcatgcgtc ggaatgtcga tttggttgag tttcgtgtgg tttgcgtaca caattccatt 60
gaggacaagt cgggtgcttac gttctaggcc ttttgacgca tcaagtcgtt gttcgtagtc 120
aactttgaaa ggactcgtc ttttcttcat cgagacatgg aatgtgttgc tagaagtaga 180
atagagcctg tcgcgaggga acatacggaa gttggtctag actctccaat ggatcgaaac 240
gacgattgta attttggat gataaccagg attgaaat 278

<210> 1188
<211> 319
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-022-Q1-E1-E10

<400> 1188

gcaaatagga atacatggat ttacaaggac aagccacttg tgaaaaatat accaaaaaag 60
gcatcttgtg gacaacgttg gtcgccttgg tcgttggact agtcacagac gattacctgc 120
gaatggttca agtatttata ttgggagtag ttttggtagc tatggtaagc tgtctctatg 180
tgtttattgg acacttctat ttccaatcct atatacttgt agggcgtact tttcccctgg 240
ccatggtata caagacatcc acttgtgttt gtccacgccg caaccaaaca caacaataat 300
aacaaccatt cttaaccaa 319

<210> 1189
<211> 432
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-022-Q1-E1-E12

<400> 1189

caacaataac acgaataata atacaagtat tataactacc aataatagca atgtgagcaa 60
 tcgatgtatt gcctatttga ttgaaacgag caacgacaaa catccacccg agtccacttt 120
 gggatatcttg gaagattgga ccaacagtat tagtggtgct ccacacaatg gacatatcc 180
 tcgaaatata cgattgtctt tgatggcaat ggatttatta caacctttta tttatctttt 240
 gagttgggga ggagaagaag aaaataattg gtggaagaat tggacaagga tgaatatgga 300
 atccacgagt gatgattacc acaagaatgt attgtgggaa agatggcaat ggctgatgag 360
 catggacaat actccacttg tcatcaacta ttcgagtgtg caagaagata atacttggat 420
 gacttggtgg gt 432

<210> 1190
 <211> 443
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-022-Q1-E1-E4
 <400> 1190

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 atatgcattt ggatatttca ttggccttat tgtggacgtc atatttggtc atgtagagca 120
 tggttggcgt tttatgcttg gttcagtcac tgtgccagct tccctagtaa cttgcggatt 180
 atttttcgct gaagaatcgc cgaggtgggt attagcaaaa ggacgcgaaa atgctgcgtg 240
 gaatgccttg acaaaactgc gttcttctga agaattagcc acgcaagact ttgatgtaat 300
 gcgccagttc ttagagaaaag agcggcagac aatgaaagag caacctggtc tctttcgtac 360
 gctatatgaa aagccaagtg ttcgtcgccc tgtcatgctg ggcaactgcat taaaaatagc 420
 tcaacagttt ttgtgtgtca atg 443

<210> 1191
 <211> 419
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-022-Q1-E1-E7
 <400> 1191

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tagatcgtgt cgtcgtttgg ggcaatcata gcgctacaca atatccagat attactcatg 120
ccagaatcaa aggagaatcg gccagaaaag ttatcaatga tgaaaagtgg attcgagaag 180
ttatgatacc taaagtacag cagagaggag ctgaagtaat caaagccaga ggtgcttctt 240
ctgccgcttc tgcagctgct gcaatagtcg atcatatgag agactattgg catggagctg 300
gtgaccgatg gtgctctgta ggaattccta gcgatggaac ttatggaatt gatgaaggac 360
tttggatttc agtgctgtt atgtgtcctg ntggacatta tagacggatc ttgaatctt 419

<210> 1192
<211> 370
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-022-Q1-E1-E8

<400> 1192

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cctaaccggt cgtgctaaat catacctct cgtagaaacc tacaggtaaa catacggcga 120
gatctaggt tactataacg caaagaagga attgaaccg atgatcaagg cgatacaaat 180
gcacatgcgc tcgacaatct gtccatcgca actactcaga ctttactaaa agacatcacg 240
catgagcctt gcaacgaatt acaagcacta gcagataaca aagtagagga ccaccatcat 300
acttataaaa ggttcgagaa atatcgtgaa gtacacagcc gatatctacc atcgttaaaa 360
gcaaaacctg 370

<210> 1193
<211> 348
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-022-Q1-E1-E9

<400> 1193

gcaaatgaga agggatttga gttgaaagaa gagttgccag cttcggtgaa acggttgatg 60
aatagagagt ctttttccaa aaatgtcaac gaagaaaaga acaatgcaat gaataagggt 120
gtcaaaaaaa cagcaaatct atccttgga taaattttga ttccgtaatg agaattcata 180
cagaagagga atggaatggc tggaattttt caaagcaaaa aaaaaaaaaa aaaaaaaaaa 240

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaacaaaaaa aaaaaaaaaac aaaaaaaaaa 300

aaaaaaacca ccaaaacacc caacaaaaaa aaaaaaaagg gggggccc 348

<210> 1194

<211> 436

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-022-Q1-E1-F10

<400> 1194

agatggagaa ggacgagcat caggcagtgg caagggaatt ggctattcgc aaacgactcg 60

gcaaagtatt taaaaaaaaa agagagaaga ctttgctact gaagaagaat ataataatta 120

tttagaagct tttgaagatg ctgtatatag tttgagtga ggaaccaaca cagatgaagc 180

ccaagcaagt atggagagac ttgcaaagta tatcaaagac actagtagag aagaaatact 240

catgaatcca gttttgattg tggatgatga gagcgaggac aagaataatg agagtagcga 300

acaacaagga gtgacctttg tagatcctgc aagaccagca aagcctatgc ctgctccttt 360

acgagacaac agtcctgtgg atgagaagat gcgtgcaaga gcttccggat tcgacgaaaa 420

actatgtcgt caacga 436

<210> 1195

<211> 412

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-022-Q1-E1-F11

<400> 1195

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gtctccacta ttcttcctat actgccaatg cctacattat tcttatcaat atctttttac 120

aggaaaagga tattttaagt gctcaacaaa ctgcttcaga gttattagaa atagtggaga 180

agattggatt tcatgactta cctttatfff cagatacgat gggaacgtat ggtcctatff 240

cctatgcttc cggtgattat gtggaagcag aaaggaagtt acgtttggca ctggattcct 300

tacagtcttg gagttgttcc tatttatggt ttgatgttcc tatgaagcac tgtatgcatt 360

tagattttgtg gttgatggat tggctttccc gactattgaa tgctcatggt aa 412

<210> 1196
 <211> 382
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-022-Q1-E1-F12

<400> 1196

cccacgcgtc cgcggacgcg tgggggaaga tatgagtaaa gaaagagttc aaagtgtac 60
 accttttgat tggaaaactt ttcttcacca gcgtgcttta ttgccggaag aagtttcagc 120
 tcgttatgct ccaagttttt cacgtatatt tggagataac ccaagagtaa ttctaaggag 180
 gtcgctagag ttgatgcgta tccctgaaga gcatattcag cttattctca ttgcggtaga 240
 gtcgttggat tcgggcattg aatcatagta atagttactg atcatttaga gcattgtttt 300
 gcgcattgagt ttctatttga tgtataaaga ttttagggta acagggagtg tagtttttta 360
 gccagaagag ccctgcatac at 382

<210> 1197
 <211> 423
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-022-Q1-E1-F2

<400> 1197

cagcgattcc atgttgaaag agggtaacacg tatattgtcc gatctcaagt ttcaggtgct 60
 tcaagatgga aaaccccagg tgataacttc ggatcaagta ttcggaggaa agaaagtagt 120
 attgtttggg ttacctggtg cctttactcc aacctgctct aggcagcacc ttccaggctt 180
 tggacagaag gttgatgaaa tcaaatacga aggagtagat acagtcgctt gtttagctgt 240
 caatgaccct tttgtattac atcagtgggc agagtcacag ggagtggcag gaaaaattct 300
 catgttagca gatggtggtg cgcaatctgt caagaaactt ggactggata tcgatactgg 360
 tgactttggt ggtattcggt gtcgtcgatt ctcaagcttg attgacaatt atgtcgtgaa 420
 aaa 423

<210> 1198
 <211> 361

<212> DNA
 <213> Cyanidium caldarium

 <223> unsure at all n locations
 <223> Clone ID: LIB190-022-Q1-E1-F5

 <400> 1198

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 caaaccagag aggaaagcgt taaagcatga aagaaaagaa atccgaaaaa gaagagaaaa 120
 aggtaagaaa gaggaccgaa tcagggttaag aggtagagga gcaagaagag aagagagaaat 180
 gctgggtgga gtagcgaaac aagagaaggg aagtaaaagg taagaaagag gaaaggttta 240
 cgagagaagg aagtagaaaag aagagagtgt aaggcggcgt cataatagaa atccgaaagg 300
 agtagaagan nagagagaga agaaggaaaa gaagagaaaa gccgtactga agaacgacac 360
 a 361

<210> 1199
 <211> 355
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-022-Q1-E1-F7

 <400> 1199

 cccacgcgtc cgcgcacccc aaaagatatt tataaagaca agtattgggt gtggacaaaa 60
 aaccaaccgt gggaacctat cttgtacgga caatgtcgtc tacttattac gaaaaagaaa 120
 aggaaaatat tcatcccaat atctatccca caggagatag gataataagt ggtgatgaca 180
 ggcaggttgc caggaataga tcccccaaggc agcctttaca acccatttct tacaatacta 240
 tgcagaacaa tgtccatcga atactgattc gaagtgtacg gtaaagagag gagtgcgcca 300
 atttggttgg ttttggaggg ataccatatt atatataac gcatatatgt ataca 355

<210> 1200
 <211> 438
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-022-Q1-E1-F8

 <400> 1200

cggacgcgtg ggcggacgcg tgggtgacga aagtaattat ttagaagcta gctttactcc 60
 agattcaaag caagttttga gtggttccga agatggctcg atttttatnt ggagcacaac 120
 aaccgggaag catattgtaa ctttaactgg tcatgaaggc ccagtttgtg cggccaagtg 180
 gaatcctcaa tatgccatga tggcaagtgc ctgccagaat gtcgtgtttt ggttaccaag 240
 tgcgttgtcc acatagggaa ataatttgtc ttggtagtta aagccgggct gttttctttg 300
 gctttgaaca tgattttgtt gcagcatgat gttaagagtt aattataggc actttgatga 360
 gtcatttatt ctgctgttag cagcaacatg attttcgctt gtaatgacgt tttcttcgag 420
 tagaacctga acactagg 438

<210> 1201
 <211> 398
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-022-Q1-E1-F9
 <400> 1201

cccacgcgtc cgcattaact ggacatactt atcgagtatt gtatttagct gtctcaccgc 60
 acaatgaatc gattgtgact ggcgcaggtg atgaaacttt gcgatttttg aaggtatttc 120
 ctgctagtcg tcaagtcaat ggtttggaat cgaaaagttt gctttcaact ggtcaaaatt 180
 gtttgagata aaataccaca aaccacacac aaaaaaaaaa aaaatccata aaatacaaaa 240
 caaaaaatat acaaacaaaa aacagattca aaagaaaaaa aaaaaaaaaa caaaaaacca 300
 aataaaaaaa aaaaaggggg ggcccccaa aggtttcaag ctttaagttac ctttcaatca 360
 aatttaaaac ccctccaaag gttccccaaa attcaatt 398

<210> 1202
 <211> 322
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-022-Q1-E1-G1
 <400> 1202

cccacgcgtc cgcccacgcg tccgcccacg cgtccgaaa actttggcag agaatagtgg 60
 cttcgatgca caagaagttc tattgaaatt gcagtcagag catcaaaagg gacatattgt 120

tgggtgttgac gtggaaccg gtaatcccat cgatcctctt atgttgggaa tatacgacag 180
 ttttgctggt aagaagcagc tgctgaacct ttcattcatg atagcatcac agcttttgtt 240
 agtagacgaa atacttcgag ctgggagaaa tgttccgttc aaatcaggca gtaatcaata 300
 aaagcatcca ttctcctcc tt 322

<210> 1203
 <211> 431
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-022-Q1-E1-G10
 <400> 1203

tgcccttctc caaccagctg tcttgggtatc cgtcacaagg cagaaacca actgacaaaa 60
 agatattcaa ggagtgtatg ttctcgtgaa agagggtcgt tatttttaac tggtcgttat 120
 aagaaagact ttcgtccccg caccgtacga cgtccttttc gaatcagttc cctcttaaag 180
 agagaattgg cggatatatt gcaaaagcat gcgcttcagg acaatagatt tcttagtgaa 240
 caaacttttg gtttgatttc tgtgggttcgg gtagatgtta gccccgacct taaaaatgcy 300
 aaagctttta tcagtgttac aggaacggat gccagcgaa cagcaacgta tcagtggta 360
 caagatgaac gcaagtccat caaatatgag ttgtctcaga gagttcgaga gataagatat 420
 atacctgaac t 431

<210> 1204
 <211> 424
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-022-Q1-E1-G3
 <400> 1204

gccaatattgt acaattctta taaacgtgga ttccgtacca atggagtatc ttttgtatgt 60
 attttgcga ttgcattatg tcgtctcttg attatgcctt tgttgggttg gtcattggata 120
 cagttattat tgcacttttg aatattatcg gatcgaacgg acaatattca attgttggtta 180
 atgatgatag aaacggcagt accatcggca aacaatgtgg tgattatgtg tgagatgggt 240
 ggaacgagtg aagagcccat ttcgttggcg ttgttgtggc aatttatatt ggctcccttg 300

tttttgacgg caaatatggc gtttttcttg tggctcttga aatagtttac aattcacacg 360
 ttggatatat tggatcatcta tgtaagtttg tgtggaaaag aataattctt tgggttatct 420
 ttgt 424

<210> 1205
 <211> 427
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-022-Q1-E1-G4
 <400> 1205

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 ttcaatctct aaacgcggct gtagaaaagt cgaaaaagtc aaaaaccctt ccgaactatg 120
 gggacgggtg ggagttggaa ggtacgtttc gaatgcctcc cgtatcccc agcaactccg 180
 cctctccttt gagcgaaatg ggtggaagag tagaaccaat gaggttttct ggactaggtt 240
 cagcgttttc tcggtcttcg gatgacggag atgtggcttc acgacaaggt acaaccgtgg 300
 actacttggg ggcaagctta tcgcagtttg aagatgcaac gaatgcagcg ggttcaaaga 360
 gaaagtcggc tcgtaacggg gtttggtatg aagaaaacca caaaaagggc atcttttcga 420
 agaaaga 427

<210> 1206
 <211> 411
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-022-Q1-E1-G5
 <400> 1206

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 cctgatggaa attatattgg tgcacaaggt ctacaaaaac tcttcgaaga ccttcaagta 120
 gaccctagcg atatcgtcac tttggtactt gcgtggaaat tgcaagcaaa gagtgcgtgc 180
 gagtttacag aaacagagtt tgtagatggg ttggcaaata tgcaagtaga ctcgttggaa 240
 aaattgaaga agaaactgag ttctttgaga aaggaattgg atgaccttc caagtttaga 300
 gctttctatc aattcgtatt tgattattcc agggaaacct ctcaacgttc gttaccttcc 360

gacacggcaa tggctttatg ggaagttttg ttgcgaggaa gattcccttt g 411

<210> 1207
<211> 411
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-022-Q1-E1-G7

<400> 1207

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atgaaatgca gagatctcta gagaaggca agaaagaaaa gaaaggaaga cacagtaaata 120
gatgcaagca aacatatgac gcaatacatt agatcatagc atatgccatt cagttaagta 180
aaccgatgag ttgagtagtg tgggtgtaatg gaatagcata acagcacagc acagtgtaat 240
gtatggtttag ggtagagtcc ataccagaag tgaaatcggg actctaatact gagaagaggc 300
acattggatt tgaaatgagg tccagtcaag acaagtcagc tctgcagaaa attgggcagt 360
gtacagggaa gtgagatcca atccagtaga gtggagtaga cataacagga a 411

<210> 1208
<211> 420
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-022-Q1-E1-G8

<400> 1208

acgccgttca gtgatattat cggtgaccaa gaagaaaaag aagtgaagga agcagcagaa 60
gtttccatgg gaacggaatt gagcgacgaa gatgtatcca acatccgtga gttgtgcgaa 120
caagtgatta cattggcgga atatcgcgcc actttgtatg aataacttgaa aaatcggatg 180
gctgcagtag ctcccaatct gactgctatg gttggagaac tggttggtgc gagattgatt 240
gcgcatgccg gaagcctcat gaacttggca aagtatcctg ccagtacggt gcagatattg 300
ggagcggaga aagcactttt ccgagctttg aagacaaaaa gcgctactcc taaatatggt 360
cttatttttc atgcttcttt ggttgggtcaa gcagcaccca aatacaaagg aaagatatca 420

<210> 1209
<211> 382
<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-022-Q1-E1-H5

<400> 1209

agaaaagcgt ggtgcagatt tacattcatc gccgcacaca acagtgaaag ataaaagaaa 60

ttcttcacaa tcggatgctt ggtagtacct ggatagagat gttctcgtaa gaatcgtgga 120

atctttcaaa gaaactcgaa acgagatcga cggcatttca gggatatacga aagaaggtag 180

atagaaaaga tgacggatct agcatccaat agtatttggt gtcgacgaaa tgcttggcag 240

tggacatggg ctacttgtag caagtctcac gctagagctt caaatattga gagaaaatgt 300

gtgaatgcat ctctttttta atcgaagtgg tgtacaaccg atcttgacat ttgacgcta 360

ctagctcaat tgaaacctat ct 382

<210> 1210

<211> 272

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-023-Q1-E1-A10

<400> 1210

gggattgttt gtggcgaact ccttacagtg gtgtatctcg ctttcctagt tttgtccgta 60

acaggaaaca atcaagaaac cgctgttttc aacgcgagaa atagttttag tctcccacca 120

acgattggcc actttgggtt acgtgccaaag tcgacgaaaa agagttgggc ctaactccaa 180

aactgggaag actagtaaata aattttgcag cagctccaga acccaaactt acgaatcaac 240

aattgcttta cttggcaaaa acgttagaac cc 272

<210> 1211

<211> 447

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-023-Q1-E1-A11

<400> 1211

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cctaaatact ccgttatttc cgtcatattg ttgttgggaa gaaagacttt gagaattgct 120

tcagacgcat ccaattgtat gtttccataa acaatgtcag aaaacaaact tatctacaag 180
 aaaaataaga aaacacactt tgcgaaggga ctaaagtacc attaactcca acaaagctgg 240
 tctccagctt tgagaaagac tttgaggggtc ttgtagacca caaagtgcc tctgtaataga 300
 tttccagact tggtagaata gctcattatt ttgatcaaag cattctgact cgtgtattgc 360
 atttggttgt ttgtatattg cgattatatt gtgaagtaag taaagaagga acgaaatcct 420
 gtgattggaa gaaacaggaa gttcttg 447

<210> 1212
 <211> 406
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-023-Q1-E1-A3
 <400> 1212

cgcggtgcagg tggcgggcaa ggatccaggg gtgcagggac gcgtcacgcc cacgcgtcag 60
 cccacgcgtc cgccacgcg tccgaggacg cgtgggaatt ttgaaaggat ttcctgtcga 120
 gttggagttg aatttagatg aaagagatac ggaaagtgat tctatagaga gaatagagca 180
 tttgttgagt tggtcgaaga aaattgggtt gaaagttgct tccatcaaca tttgtcaact 240
 ggaatcggaa cttgttggtg agaattttgt cagactttgg gatgttttga aaagtattgc 300
 agaggcgtct gtggtagtat ctgtcaatat gcgtcagtta caggaatcct gaaatgaggc 360
 caatttggtc gagatggatt cttcctcaac agaaaaactt gttgca 406

<210> 1213
 <211> 389
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-023-Q1-E1-A4
 <400> 1213

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 ctgcgcgttt gataagaact gtgttttctc atgtctcgct ttcctccaga gttgttcttc 120
 tcaccacaca agacctttgg tccacttggt tataagatat tctcgtctcc tcacaagtat 180
 gcacaaggca aaggaatcat acagtatctg ggactattct tgaaacctct acaggagagac 240

attgcggtag tggtatgttc cccttcgaaa agagaacact atacgtagtt tgatagaaca 300
 ttctcgtatt aaagatggat ctgcanagca agttgtattt ctggactttg gtggagaatg 360
 ttctgtgggaa gaacttgcaa atgtgaata 389

<210> 1214
 <211> 402
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-023-Q1-E1-A6
 <400> 1214

gtgggccttc gacaggggaag aggactaagt ggggaagcgt tgaagcgttt gaaagttttg 60
 cagtcggaaa gcttgtaaaa caagttatcg gtgactaatc ttcaagggtta ctttggaaacg 120
 aacaagaacc ctcttaagag caactccaca ctttagctgc aagctactgt taggctcctt 180
 gttgtttcca aacagaaagg aaagggtaaa agagggtgct atttgggaaga gtatttgaaa 240
 cgtcacagta tttactgagt ttgcaacgag tattatggac atgacaaagg agccctccca 300
 agtgataaga taagtttggg cggaaaacct ggaggaggaa ctagcaaata tttcctccaa 360
 attggataag tataactttg ttgcaatgga taccgagttt cc 402

<210> 1215
 <211> 273
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-023-Q1-E1-A7
 <400> 1215

cccacgcgtc cggaagaata tgacgagttg gttaatgcag atatgtggaa tgatgccgta 60
 agaattgccca gtatccaaca aagacaagta cgaaccagcg ttttgcattc caaaagtaat 120
 ggcgttttat ccttttcagg aaaaacatcc accacaactt ttcgatatcc catggacggt 180
 gttatttttg agaatagtat ttttggattt gcagcaggtc caaatgagat ttggagtttg 240
 aatcctgcag gagaagtcaa gttgatattg cat 273

<210> 1216
 <211> 405

<212> DNA
 <213> Cyanidium caldarium

 <223> unsure at all n locations
 <223> Clone ID: LIB190-023-Q1-E1-A8

 <400> 1216

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 agaggaagag gagagatgat gggagtaata agggaaggag gagtacactc gataataggg 120
 atgggaatga tgatgttatt aggaagagaa aggagtaagg aagtaaagga gatgataaat 180
 gtgagtgtaa gtgagagtgg agtatggagt ggagagaaga tgaagaggag tgtaatgaag 240
 gaggagatta aggagagatg aaataggtgt atgatgcagg caaagaagtg acgcattata 300
 ttcagagagt acacatgcaa gtaggtanag cgaacgggtg agtaaagagg tgtgaaacag 360
 tggaagaaca tgaaagcaca gaagaatgta agaaatgggt agagt 405

<210> 1217
 <211> 436
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-023-Q1-E1-A9

 <400> 1217

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 cccctaaaat tggggaaccc cccttcccaa gtttggcccg taccaggaac caaccagaaa 120
 accccggttt ccaccgcaag aaaaggttta atccccccac caacaactgg caactttggg 180
 ttaggtgcca attcaacgaa caaaatttgg gcctaactcc aaaactggga aaactagtaa 240
 atagttttgc agcagctcca gaccctaaac ttaggattca acagttgctt tacttggcac 300
 agactttaga gcccctgcct ttccagtaca agacaaacga gaataaggtt cccggttgct 360
 tctctactgt tcacgttatt ggcgtctgtg aagacgataa aatttttttc aaggagatt 420
 ctgacgcaca gttaac 436

<210> 1218
 <211> 357
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-023-Q1-E1-B1

<400> 1218

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gtacattgcc atgttacgtt gtccagagtc agataaatac agtttgaaga gcttgaaact 120
agcgataagt ggaggagctg ccattcctgt tgaaatatta aaagaatttg agcagaggca 180
tggaattgct atcatggaag gttatggatt gtcagaaact tctccaactt gttgttccaa 240
ctctgccaaag ggaggaagga agccaggatc cattggacgt cctgtttggg gtgtagaaat 300
ggcgatattg gatgaaaatg ataagccagt tcctgacggt cagccagggt aagtatg 357

<210> 1219

<211> 200

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-023-Q1-E1-B10

<400> 1219

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ttcctatctc ttcattcgca tggcaagaac aatccgttgc tcatcttata attccaagtt 120
ggcagtccac tcgtccaact ttggattcgc tgggagcaaa tagaaaattt cataatacac 180
tttattgttg ttgtattctc 200

<210> 1220

<211> 299

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-023-Q1-E1-B11

<400> 1220

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ccataaagga cggatggaaa ccggaaaaac accttctagt ttccatttgc gcaggagtgt 120
cgattgggac aatagaacag cagctggtaa gcaaatctag agtcattcga gttatgccaa 180
aactccgtg tctggttgga gaagcagcag tcgctttctc ttgtggttct tgtgcaacaa 240
cggacgatca aaaagtagtg gaaaagattt tctcttctgt tggactggca agttgtgtt 299

<210> 1221
 <211> 405
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-023-Q1-E1-B2

 <400> 1221

agaaagagga aagggatgaa atgcagatat ctctagagaa aggcaagaaa gaaaagaaag 60
 gaagacacag taaatgaggc gagaaagcat aggaagtga acggattagg aacccgtgta 120
 gtctatgcag taaaagaaag aatgagtaag aaaaaaggga gtcattccac caggggagta 180
 aaggcgcaag aaagaaaccc aaagcaattg acgggaatcg gaaaaagggg tggatcacgt 240
 aaattaatcc gatataaacc gagaacctta cctctccaag aaggtgttgc acggctgtcg 300
 aaagaacgtg ctgtgaagtg agagaacgta cgagaaagcc aagtgaggaa aagaaggcaa 360
 gtagagggcg gcccgagaaa ggagaaggcg taagacgtga tacag 405

<210> 1222
 <211> 409
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-023-Q1-E1-B3

 <400> 1222

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 cgtttgcgtc tgtcttcaaa gtatacaatt tctttggttg ttatagttga tttatataaa 120
 cttggaatgg gaacaaagaa,acaacatatt gtgagcgttt gtaggtacga gagaaaaaag 180
 ggtgtcttca actgtttatt ttcgatgacc acgctgcaac cgtaagtatg tagtgtaaac 240
 gcggtagttt tgtagttttt tgtgttctgt gaagcctgtc gcattacaaa aagtgacgag 300
 atacgtggat ctgtaatcat attagcattg ttcaaggaaa cttcactgtt actctgaaca 360
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<210> 1223
 <211> 435
 <212> DNA
 <213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-023-Q1-E1-B5

<400> 1223

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cgtttacaca gagagtaatt gctgctctcg tggacactgg agacggtgac tcgatggctt 120
cattgacgac aaagataaag ggaagttctc aagaagaacc tttgtggaaa ggattcagtg 180
atagagatac acaaagatat tatcaggaag tgtttgaaga gagaataaaa gaacagctga 240
aaaaactagg tctccttcaa cctgaggatg acgactatgt gcagtcgagg attcgagacc 300
ttcaatggcg ttacgtacg gcanaacatg atgctagaat ccgaagaaca aacctgttga 360
ctagagtgc gactacggaa tcaaagcggc aagcgactgc angagagatt aaagctcaca 420
atgatgatct ggaaa 435

<210> 1224
<211> 419
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-023-Q1-E1-B7

<400> 1224

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taatagatat atacgtatat atatatatat atagagagag agagagagag agaaacacca 120
aacagtatag atagataggt acattgatag atatacatgg actcgagtca agcgtttgtg 180
tccactagtg ctctcaatct tatgtacaac aggtttgtga gttgcaaacc caacaacttg 240
tgttatcgag aaaggctacc gacgaacatt tacaagtcac ttcaggccaa gagaagtga 300
caagatgaaa atagtttacc ttggaggcta ggggagctac tatccccaag aaagcaattt 360
gacaggattc agccaaaaag tagggtgcct tctgatgacg caatttgtat atgtggcac 419

<210> 1225
<211> 378
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-023-Q1-E1-B8

<400> 1225

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tttttaaaac tcgaagaaga ctattttattt cttgggtatgt tttaaagtct tttctagact 120

ctgtttttttg gagttgttgt actccagtct tggtggttgg tgaatggctc tagtgacaaa 180

gaggggtgtc actttgcgcg cattctccac agcttcaact accaacttgt atacgtagac 240

aactacataa ctatattact acagagtcgt ggtgtaaaac gaaaagttga gtggttgaaa 300

aggatggtga aaagcaaagg actantgaga gagagcactt tgaaaccttg taaatttgta 360

ccccccaaaa acaatttc 378

<210> 1226

<211> 333

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-023-Q1-E1-B9

<400> 1226

cgctgcagg taccgggtcta gagttcaagg accgcttcgg ccaacgattc ggcctttcct 60

ttgtcaattc aaggaaggat accaaaatta tgaaacaaga acctgaatat aattttggat 120

tgttattgga tgctgccaaag gcattagggga tgatgggtgt atagccaagg atgtacagaa 180

aggtgtgtgt aatagacaa gaggcattatt tatgaaaagt ttattgtttt tttcgtgcaa 240

atatgatttg tatcgtttat atcttgaata tgtgttgtat ttgtttggca ttttgcttgg 300

aaaagtaaaa attgtggagt ttttgaata ttt 333

<210> 1227

<211> 434

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-023-Q1-E1-C1

<400> 1227

cttttgtatc tcatcgtttg ggctgtaaat gttgctaattg gaacagggtg agcaacctaa 60

cattatatat gttgaaaact aatgaacga aaagaagctg gtgtgagcat ggaagtgcc 120

actattagtg ctgccaacaa tgactctgaa gatagccacg aagaagtgag gaagcgggtg 180

agtagagtaa gcgctccacc gtttcccgat cctacttctc taggattatc tggtttttagt 240
 tgcacaactt tcattcttag cgtaatgaat gccaaattat tgccagcgag gattgtacca 300
 ggaattgtag ggcctgcctt tttctatggt ggaacggtac aaatgttggc gggcctttta 360
 tgtnttgta ctcgtaacat gtttggattg gtggcattta cttcatttgg agcttttttg 420
 cttgcggttg ctac 434

<210> 1228
 <211> 284
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-023-Q1-E1-C11
 <400> 1228

agcattcggtg gtttagtcca tttccgctgt ggctgaaaga cttgtgatat tcctgtacta 60
 gttatggaga aaggaactcg actggtatac aactctgcaa ggagcttgct tgctagatat 120
 acacgcttga atgctgcttc catcaaatac ttccatacac catctatggc agtttcgacc 180
 taccgtagtg tctttcaggc aaagcctttg gttggattaa aatatgcaag ttatctgtgg 240
 aagagaagtt tcgcaacagg aaaagatctt cgatttgcta ctga 284

<210> 1229
 <211> 398
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-023-Q1-E1-C12
 <400> 1229

gtgaagtact ttattgttac ccaggttcaa tatgcccaaa gctgcgagta aagaagagaa 60
 gcccgctca aaacgcgctg tatncccta caacgaatat atgaagaaga tgcttcccgt 120
 cataaagcaa caaaacccca atctttcgca tcaggaagct tttaagcgtt gtgctgaaag 180
 ttggaagac gctccagaga atccaaagaa ccaggcttca gcctaagta ggggttttct 240
 ttgaattggt gtttctcaac accaccagga gaaggaacta gtctatttta tatttcgctt 300
 tgtgtcttca agcacggaat atgaggaaag gtaaaacttt gtcttatttg gtccgtatga 360

gtagttgcgt gtntgtaaaa taaaatcact tttcaaca

398

<210> 1230
<211> 424
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-023-Q1-E1-C5

<400> 1230

cccacgcgtc cgtgagaagt tgacctctgc tttgccacct ctttttggtg tcgcttatgt 60
gttttgcctt ttcaaagctt gaagactatt tattctgcaa tgttttagag gcttcttcag 120
agggtttttg tactagtctt attccgtgtt tcgtagtggg tgaaaggctc ctttcacaac 180
agcgttgtca tgaaccgcc aatctccaca tcctcaactg ctaacttgtg cgcgtacgta 240
gaagtatatt tgtacagatt cgtgggtgtag aaagaagagt gcaatgggtg aaaagtaacg 300
gcagagtacc aatgtacctg tagaggaaac acttgaaaaa gggtcacgtt cttgtacata 360
tctacctata atagctgttt ttgctcgtag agattgcaag tttagtgtac ttgacaaggt 420
ttcc 424

<210> 1231
<211> 376
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-023-Q1-E1-C6

<400> 1231

cggacgcgtg gggagaactt ttggatgatg ttgagatcat cacgccacgc gagccgagtc 60
aacgcggttg tcaactttct ttgcgtttga agaggcataa attgagggag attcacgagg 120
ctttgactgg tagaggagta gtatgtgaca cgcgtgaacc agacgttttg cgtgtcgcac 180
cctttccatt gtataatact tacatagaag tgttggagtt tgtccaaata ctttctacta 240
ttttgcattc ggccgaaata actgtacaag aacaatagat tttgttttct tattcattat 300
gaattttatg cttagaaaca atatgataaa tatatttcgt ggttgttttc gtcaaaaagt 360
aatagcttgt ttgcaa 376

<210> 1232

<211> 319
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-023-Q1-E1-C8
 <400> 1232
 gcgaggtgta tgaggctggc ccggatttga tgcagtctgt caccgcattg tagattgcat 60
 atggtgtcac gatgggttga ttaaagaagt atttgagttt ggtagaacct gcaatcacac 120
 attaatgtca catatgctta tagtaccgac cacttacgga agtatcatcg ggaatctgac 180
 atgatgatag ccacattgca cctgagtgag ggtccatcca aggtaactca gcaatgtgga 240
 accatgtgca aagtacaagg aactacgacc cagtcattgat gagtcgactt tgcaagataa 300
 gccttatgta gaggggaatg 319

<210> 1233
 <211> 436
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-023-Q1-E1-D1
 <400> 1233
 cggacgcgtg ggcgcagcga ttccatgttg aaagagggta cacgtatatt gtccgatctc 60
 aagtttcagg tgcttcaaga tggaaaaccc caggtgataa ctccggatca agtattcgga 120
 ggaaagaaag tagtattggt tgggttacct ggtgccttta ctccaacctg ctctaggcag 180
 caccttccag gctttggaca gaaggttgat gaaatcaa atcgaaaggagt agatacagtc 240
 gcttgtttag ctgtcaatga cccttttgta ttacatcagt gggcagagtc acagggagtg 300
 gcaggaaaaa ttctcatggt agcagatggt ggtgcgcaat ctgtcaagaa acttggactg 360
 gatatcgata ctggtgactt tgggtggtatt cgttgtcgtc gattctcaag cttgattgac 420
 aattatgtcg tgaaaa 436

<210> 1234
 <211> 392
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-023-Q1-E1-D11

<400> 1234

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ggacatcttc ggacatgatg tatgtaggag atgtatggac gaacaatcgc tcttcgcaac 120
ctttcataga gtcganaccc aagacgagta gtaatacgtc gaaacgtagt cgtacagttg 180
tcgataagaa gaccgaagct acgaatgctc ctttatccag ttctggtagt cttttggaga 240
gtttacaaac tttgatgaat atgtttcctt gtacaagtga tgttgctatt cctgatgtga 300
attatgtgtt gaaccttatt ttaagtacac cagagagcct gaatgtccaa gaccaaagt 360
ctcgaaggga gaagaganag aatatgagta gt 392

<210> 1235

<211> 419

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-023-Q1-E1-D12

<400> 1235

cccacgcgtc cggaaaggaa gacacagtaa atgaggcgag aaagcatagg aagtgaaacg 60
gattaggaac ccgtgtagtc tatgcagtaa aagaaagaat gagtaagaaa aaagggagtc 120
attccaccag gggagtaaag gcgcaagaaa gaaacccaaa gcaattgacg ggaatcggta 180
agagatgaaa gaccactgca tgaggataag gaatctaact gagtaaggaa aataagctta 240
agctagtttg gctggggaag taaagcctaa gaaagagtaa attaggcaag caaaggcatg 300
agagaagtat aatagcagaa gcatgcttga agaaaaagaa agagatttca gaaagggaag 360
aaaagtcagc tatagagaac aggtgaagga gaactcaaaa agaggagagc accgaacga 419

<210> 1236

<211> 439

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-023-Q1-E1-D2

<400> 1236

aggaactctg caagagtatt aatcctgatg aggcagttgc ctatggtgcg gcagttcagg 60
ctgctatttt gactggtgat gccagtgaga agacgaagga tctttttgta ttggatgtga 120

cacccttgag tttgggtatc gaaactgcag gaggtgtaat gacaaaactt atcgagagaa 180
acacgactat tcctacgagg aaatcacaga tattcactac gtatgccgat aatcagcctg 240
ctgtgactat tcaagtatat gaaggtgaac gtgcgatgac gaaagacaat aacttggttg 300
gtcgttttga cttgacagga attcctccta tgcctcgagg agtacctcag attgagggtta 360
cgtttgatat tgatgccaat ggtattttga atgtgagtgc agtggagaag agtacaataa 420
gagtaataag ataactatt 439

<210> 1237
<211> 425
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-023-Q1-E1-D3
<400> 1237

cggacgcgtg ggcgatggca ggaccttggc tcaagtatcg aggtcacctg gataatattt 60
ccaacaacat gttcatcggt gctatcaatg cggaaaatgg caaggccaat tatgtgaaga 120
atcaattgac tgggtcaatat ggtccggttc ctgatactgc tcgtgcatac aaagctgctg 180
gattgccatg gattgttatt ggagatgaaa attatggaga aggttctagt cgagaacatg 240
cagcactgga acctcgatcat ttggggaggtg ttgctatttt ggttcgttct tttgcaagaa 300
tccatgagac caacctcaag aagcagggcc ttcttctctt gacatttgcg gatccggcgg 360
attatgatcg tattagccca gatgaccgca tttctatttt gggattgaag gacttgaaac 420
ctgga 425

<210> 1238
<211> 395
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-023-Q1-E1-D4
<400> 1238

cccacgcgtc cgcggacgcg tggggagaca attctcccaa tgcggatgct gcagacgcta 60
ctccaagaag ccgtttatta ttgcatcaag taaaagttgc tctacagcat cgaataatgc 120
agttagaaga gcaactaaag cagttgaggg ataaacagag cacagaaagt gatacgaaaa 180

ccatctctat cgtcaaggaa ttgcaggttc atttgaaca agcagaacag agaatccatc 240
 agttggaaga agaaaaggaa cagatcgcaa ttgcacatga tcgacttttg gaagataatg 300
 cggcgttaga aactgaaaac gaacgtttac agttacagtt gagacgggct gtagaagctg 360
 cttcatatta tagtggtaga gacactgtgt ccct 395

<210> 1239
 <211> 319
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-023-Q1-E1-D5
 <400> 1239

accacgcgtc cggaaaggaa gacacagtaa atgaggcgag aaagcatagg aagtgaacg 60
 gattaggaac ccgtgtagtc tatgcagtaa aagaaagaat gagtaagaaa aaagggagtc 120
 attccaccag gggagtaaag gcgcaagaga taaaccaca gcaattgacg ggaatcggta 180
 agagaggaat gaccactgca tgaggataag gaatctagcg gagtaaggaa aataagctta 240
 agctagtttg gctggggaag taaagcctac gaagagagta catgaggcaa gcggaggcat 300
 gagaaaaata cactagcag 319

<210> 1240
 <211> 436
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-023-Q1-E1-D6
 <400> 1240

ctcaaattgt ccacaaagcc ttgcatcaca tttgggattg gaattggaag acttttgtat 60
 tggtagaaga aaagctgttt tttccttggc tccgaagctt gcaagtcaaa tctgcgtatg 120
 aagggatcct ctgagagctg gaaaaggaac gccagcgtgt agtggatgtt tcctccaata 180
 agcaacaaca aagtcactcg tcgcctcaac attctttctt ttctcgttgg caagacaagt 240
 ttgccaatat tggtttccaa ccttggtttc tgtggaagga tagatcgaag caaagggaat 300
 cagcctcgac agcgtcgggt gctacgtgta aaacatggaa agctgataca gaacaacaat 360
 atcaggagct attcaagaca tatcgactcg tcaccttatt gcatgacctg tgtgaccaat 420

atttcgatca tgaaag

436

<210> 1241
<211> 344
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-023-Q1-E1-D7

<400> 1241

gtggaaccga tgccttccca gcaaatacaa tactctgaaa aatattatga cgatacctat 60
gaatacagac atgtcatctt acctccggac atagcaaaac tgctccctaa aaacagacta 120
ttgtccgaag cagaatggcg cggctctcgga gttcaacagt caaggggttg ggtacactat 180
tcaatccatc gtccagagcc aaatatattg ttattcagaa gaccgaaaca aacagaggca 240
caacagactc aaaatagtat gggttgcaaa caacaacaaa accaagagca gagaccagtt 300
gacgtcgtcc cctaatacatt acgagtaaag ttttattgaa cttg 344

<210> 1242
<211> 418
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-023-Q1-E1-D8

<400> 1242

acaagcttgt aagcgtcacc acaaaatacc tatgggcaag attgatacaa cccgaatgtg 60
gcaagttggc aagcaagtca gaaaaacaag agaggaatcc agtattccca tcgttccttt 120
ttctgcaggt gtatacattg cagctatgat ggctcagatt gacattttga tggaaaaggg 180
acatccggtt tcggaaattg tcaacgaatc cgtcatagaa tctgtagact ctctcaatcc 240
atatatgcat gccagagggtg tttcttatat ggtggataat tggttacta ctgcaagact 300
tggtgcgaga aagtgggcac ctgcgtttga ctataacatt tctcagcaag catttcctgt 360
tcttgacaat caagaaccgt ttgacatgcg caagttggat gaattcctaa gtcaccc 418

<210> 1243
<211> 418
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-023-Q1-E1-E1

<400> 1243

cccacgcgtc cgcttccaaa gcgatgaaca tgtggggaga tcgtgctgcc aaagtgctga 60
 gagaagctca gtatccagat acttggcctt atacggaaga agacttttct agacttgacg 120
 aaagcaacga tcaattattt tattctcaac ctagattggt ttatcatatt gatgagtttg 180
 ctataagagc actcacgaaa ttttacaaaa acaactttgt tcctgggtgct gatatttttag 240
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 ataggattga acgagttgga attgtcaaag aattccagac ttgatgaata tcatgtgatt 360
 gatttgcagg agaatccaac atttccttat ccaaatgata gattcgatat tgtgacta 418

<210> 1244

<211> 66

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-023-Q1-E1-E10

<400> 1244

ctcatggagg agttgggtac ggagggagtc cgaacgggat gggatatgga cgtatctgga 60
 gtctctg 66

<210> 1245

<211> 372

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-023-Q1-E1-E11

<400> 1245

cccacgcgtc cgccccacgcg tccggcgtgc tgagcagtag aagcctattg tagttgaata 60
 tttgggttgc atctttacta tgtagagacc tttcatatt actctaaaca tcgatatatt 120
 gtatggcttg ttttgactga gaaagacttg tttattcaca aactattgaa aaatggagct 180
 gttgccttgg agttgctcgg aaaagggttg agctctccaa aagttacaca acctgcgcgt 240
 tgtcttttga ggtggaagct tctgaaatac ttttgcagac ggttttttggc agcacgttgg 300
 ttggactttg gtggagtcgg gtatgctatc ctttgctctt aacttacaca cttggttcac 360

aaggcactat tt

372

<210> 1246
<211> 424
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-023-Q1-E1-E12

<400> 1246

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gcttggttgg ccttacgtca ctgtcactcg agaacacaac aactaaaagg aattcctttt 120
aaaataacaa aacaagatgc tatagagaga tttttgcatt ggtccaatag caaccctttg 180
ggaataagat tggaaccttg ttcgctacag ttgaaaactt tgcacgtacc cttgtttctg 240
tttgaagcag atgttcattc agagtttgaa tatgaaaaaa catcgatggg gcgactattt 300
tatcagtcct tagtgagccc tcgaaagact tgtcattttg gcgccaatta tttcgaggc 360
acagacaact ttcgatacac ttgtggaaat gtacatatgc agctgtatgc tggcccccaa 420
cgct 424

<210> 1247
<211> 410
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-023-Q1-E1-E2

<400> 1247

aagttttgta ccgtcacttg caaaaagtaa tcagtagaca tcacttagca gccactgtcc 60
ataaacgacc atcgtcatag gtttgtacct cctgggtgacg acattttacc ccacgaaagt 120
gtcgtccgaa gtcacgggac tatggttcaa ggctcaagac ttatttccac tgtaacatga 180
ttggtagagc gagtgaacaa actcgtggct gttttgccga tacgagctcg ttactcggct 240
gaagttgggg acgtagtcgt tggccgaatt cgagatgttg tagcaagaaa atggaaagtg 300
gatgtgaacg ccagacatga cgcagttctt catctttcgg cagtcaattt acccggtgga 360
gttcatacaa ggcgatctta cgaatatgaa ccaaaaatgc gtgaactttt 410

<210> 1248
<211> 428
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-023-Q1-E1-E3

<400> 1248

aacccttaaa aatgtcatcc caggaacggc ttgtccctcg tggcgccttt gtgctctctg 60
atgggaaaat aactataaga ataccaaatt taaagagacc tatttataga agaaactgcg 120
tgcaccacaa acaaattact tgctcaaaca caaatgactc gttttcctgg gaagggttga 180
aactaggccg tttatttcga cagtttttaa agaaaacagg acatttcctt cttcacgaac 240
gaaattccta cgttttcccc caacctgaca gtgttctaaa gttacctccc gcaaaaagta 300
ctcctgaaca ggaattccaa aagttctcag aggaagcacg cttcaagtac agcctagaaa 360
taaagtcttc gccaacagca aagccacagg agcaacttgt aagtatatct agccaaaacg 420
ccactcta 428

<210> 1249
<211> 418
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-023-Q1-E1-E4

<400> 1249

attgaaagga gggcgcacga gctcagcttg aagaacaaag aacttgctg ggggttgacg 60
ttatttatga acttggaactc tattgacaca ggaattaatg ctctttttga cccgtttgca 120
gacgcctcac gtggagagga cgcagcagta accaaaaata tagtgcatat tcgcgtgcaa 180
caaagaaacg gccgcaagtg cttgacgacg attcaagggc ttgacacaaa attggatttg 240
aataaaatta caaaggcctt caaaaaggag ttttggttga acggttgtgt cgtagacgac 300
gcagaactgg gaagagtcac ccaactgcaa ggagaccaga cggataaagt caaaaagttt 360
ctagttcaag agaaattagc tgaaaaagac ctgataaagg tgcacggtat atgagtgt 418

<210> 1250
<211> 377
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-023-Q1-E1-E7

<400> 1250

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agcgactggt tagcaaaaac acagcactct gcataagagt caaactgtga agtatatact 120
gtgcggcctg acaattatta aagaacaaat cgatgaaagt gaaaggccag tcaaagctag 180
tgataactgg tactcctcga aagctgtata agtagcgat gcaggaaaga agaccgtatc 240
ggaatagaag gaagaagcag agacggacta tgatcgagaa ggtggatatt cgacagggac 300
ttagcccaat gtccaagaga aggtatcaga gtccagaacc aatgaaaacg agaacaccat 360
agggtacgct tagaatc 377

<210> 1251

<211> 384

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-023-Q1-E1-E9

<400> 1251

tgaaaattta atccaccgtg gctcattctt gttgcagata tgacagggtcg tggtaaaggt 60
ggtaaaggtt taggaaaagg aggtgcaaag cgtcatcgca aagtcttgcg agacaatatc 120
caaggaataa ccaaaccagc tatccgtcgt ttggcgagaa gaggtggagt gaaacgaatc 180
tcaggactta tctatgaaga aacacgaaat gtccttcgtg ttttcttgga aagtgttatt 240
cgtgatgcag ttacttatac ggagcatgct cgtcgcaaga cggtaactgc tatggatgtc 300
gtatatgctc tgaaaagtta aagccgcacc ctttacggat ttggacgata caacctgctt 360
gaacaaaggg tgtttctcaa cacc 384

<210> 1252

<211> 312

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-023-Q1-E1-F1

<400> 1252

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gattaaggca ttcaactacg tgagttaaat caaaagaacg atttctctgc caaatattaa 120
ccagcagata catcccatct ttttcttacc tcattactgt aaggatggaa catatactca 180
aaaaacaatc gaagtatata cttctcttct gtttcagacc attgtggatt cgttgagcca 240
tcttcccaat cgagaacgaa accaaagagg ctgataattc ggaataaacg actcgcattt 300
aatcttctat tg 312

<210> 1253
<211> 244
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-023-Q1-E1-F10
<400> 1253

cggacgcgtg ggcggacgcg tgggaggacg cgtgggtgcg actcacaggc ctgggtggaa 60
tttaaagatc tttccattgc atgccagata aagtaaattt ttaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaatgg cgaaaaaaca 180
aaagaaaaaa aagcatcaat aaaaaaggaa aaaaagtcac aaatcaccta aagtgtaaac 240
aaaa 244

<210> 1254
<211> 378
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-023-Q1-E1-F11
<400> 1254

caaaaggagt ccaaactctt cgaactgcta tgcgttttac ataaaccggc aatgcgacgg 60
aaaccttgaa attcaagttg cttccttttt acccgtttag cttgataagg ggtttgcggt 120
gccaagatgg agtatctgcg catacgtcta tgcgaaagag aaagactagg gcaaaagaac 180
gaatgtaatt cgataaagag taaacatgca tagcactggt attagagcaa ccgctggttg 240
gtttttttaca tagtcaactg aacatgcctt ggtatcttgc gagttgagct accggtgaac 300
aaagttacca agccattttg gaatcgttta ggctttatgt cgagtggtaa ttcaagtaca 360
ttttaaaaga atgctgct 378

<210> 1255
 <211> 402
 <212> DNA
 <213> Cyanidium caldarium

 <223> unsure at all n locations
 <223> Clone ID: LIB190-023-Q1-E1-F2

 <400> 1255

caactggaag ccaacgtttc tactccaagc aatcgctct ctgaattaga aaggacatct 60
 aatgtagatg tcaactggtgg gtcttcttct cgattggata gcagttttga tggcgcagtg 120
 gagtcggcaa acaaaaagga cttcgagaac gacgaagagg ttgtggttta cgtggaagat 180
 gatgagtggg ctagtcctat gcgtttttat gcatatcatc cagaggagac agacgaagaa 240
 cctcaagagt cgaaggcatc tccagaacga gaaaatgctt ccaaactcgac accgattgtg 300
 cagcaagcgt cttccactgc nacaataaac tttcaacata ccgcaacttt aaagttgtaa 360
 gatgcaaaag tgtggtacag ttgttactta gtcagttaac tg 402

<210> 1256
 <211> 415
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-023-Q1-E1-F3

 <400> 1256

cccacgcgtc cggaggtgag ggatcactcg ggaaccccaa gtgccgtacg tttttgctat 60
 ttctcttgta taggaaagaa agtatctgag aagaattaag gtagaattga aaatttttca 120
 agtatctgc gagtaataat atctgctgga atacttttca actactagag gttctttttg 180
 cttgacgctg tttgaaaaca acggaatgat tcttgctctg accagtcgat actgtcaagt 240
 gatgactcga agaggtatcc aataacttgt attttccatc gtttaacaag aggcttggtg 300
 aaaaaaagca gcgataact ttgtgcggat tgcgtcggct taagttgctc acttttctgc 360
 tgaccaagag gcttcaaac ttgcagtcaa gatagcaata tattctcact gagga 415

<210> 1257
 <211> 349
 <212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-023-Q1-E1-F4

<400> 1257

aataacttga atattgaaga agagccgaat gagaacccaa tgaatacttt ggcagcaatt 60
tcagagtcgc gactctcctt tcaaatgaag cagtcctccg tgggcacaag ttatcctcca 120
cagaacactg cacaagagtc cagtagtgga ggtgtaaaaa gtagcattca caatgaagag 180
tcagttagga agtctggaag taaacgatgg ttgttcggaa caaaccaatc catatgtgca 240
ttatcagaga aaggtggcaa gaaacctcgt cctcggggat atgtagtgaa cgataatgat 300
atgcctttga tggaaaactc aatcgacgca ttccaaagct gcagctaaa 349

<210> 1258

<211> 445

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-023-Q1-E1-F5

<400> 1258

atgtctcgtc ccaagtgttt ctttgatatt gctatcgggtg gacaacctgc aggaaggatt 60
gtattcgagt tggtctccga tgctgttcct aaaaccgagg aaaatttccg tgccctgtgt 120
accggtgaga aagggtttgg gtacaaagac tccaagtttc ataggatcat tccccagttc 180
atgtgccaaag gtggagactt tacacgcggc tatggaaccg gtggcaagag tatttacggc 240
accaagtttg aggatgaaaa ctccaagttg aagcattcgg agcccttttt attgtccatg 300
gccaatgcgg gaccgaatac caacggaagt cagtttttca ttacggtagt gaagacacct 360
tggttgatg ggaagcatgt ggtgtttggg aaggtttag aaggtacgga tatcgtgaaa 420
gctatggaag ctgtgggaac acaaa 445

<210> 1259

<211> 270

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-023-Q1-E1-F6

<400> 1259

gtaagccaag tcatttggct gacaagagac taagacggac ttgtctttgc gtttcgtgtc 60
acagcccttc aagtgactct gagcaacagt tggcctgttt tcgttggttg cgtgatatgc 120
agaatattgt aacgctgctt cttattagt gtttgattcc aagtccgctc gttaatgtaa 180
gcggtgcagc agcaagttct ttttcaacta tgtacaatgt ggaaaaatat gaaagccatc 240
cttctgtttt ggttggtttg ttttgaacaa 270

<210> 1260
<211> 411
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-023-Q1-E1-F7
<400> 1260

gtgaggcatg ggatttgcag agttcgaacg ctcttatgag aagtatacag gaggtgatcc 60
atcgagaatg aaagtgtccg tggagaaact agacgaagag ccacacgacg atcatagagg 120
ttccacttca taaaagagac tattgtgcac atttgtatat tcctttgcgc cgttggttga 180
gagacaacta ttttttgccg tgggtcttgc aggaagagaa ggaggcgtat aaccggtgcc 240
aaagaaaaga gagaagaaga agagaacgac tctataagaa aatcaaggaa gaggcctcca 300
aagtatcggc gacggaagaa caagatgaat aatatcgtgt tgggtgcgtcg tctttgtggt 360
ggaacaataa taactcctca aatagtaaac aacttgattt gattttcaag t 411

<210> 1261
<211> 440
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-023-Q1-E1-F8
<400> 1261

aaattttgtg tttaatggaa tctgatggaa tagagccgga tagagttact tataacacct 60
tgataaaggc atatggctac atgcgtcggc atgatctcgc agaagctacc tttaagcaac 120
agatttccaa gtttgaccg cagttggttg gctttaatac cctaataaat ggatactgtg 180
aagacaaaaa gtttgctcgt gtcttggaac tatttgcgca actcaaggaa ttgggtttga 240
aaccagatgt taaaacgtat tctactatta tcaagggaca aatattgtct ggtgagaatt 300

catctacagt catgtgttgg tatcgacaga tgacagacga aagtgtttat ccggatttga 360
agcttgctta atctgtacta acctttttca acagaaatac atgtgcagaa ggagtttgtc 420
ctgtgttgaa cgacttgctt 440

<210> 1262
<211> 407
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-023-Q1-E1-F9

<400> 1262

ccaacccttc ggggcaaatt tccggacttg gggatggaaa atcctccttg gccaaaacac 60
catatttcat tgcaatggaa accgacatat ttacaaattg ttaatccgcc ttgttcattg 120
aaaaatttgc ttggtttaca attatccaat caaaagcgac attggatagt ttctctttca 180
caatttcgag aagaaaagaa tcacgcctta caattgtata ttattcatgg gcttattcag 240
cgacatgacg aaaaggatct tcaagattta tgtctcgtga tgatgggcag tacacgtaat 300
gaacatgatg cagaaagagt tgctcaactt tgtcgtttgg cagatgaatt gaatatcaca 360
tgctacattc gtttcatcgt caatgcaagc catgaagaaa tttatga 407

<210> 1263
<211> 419
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-023-Q1-E1-G1

<400> 1263

tggagattaa ggctgagaag gagcagtagt tcgcttccgg agcctgaaac aaacactcat 60
atatacatat acatatatat atttcctata tatatagcta ttcttcaaatt ggtttccaaa 120
aagacgaaaa aatccaccga aacagtctct tcaagattgg ctctcgttat gaaaagcgga 180
aagaccacgt tgggcttgaa aagtacgttg aagagccttc gtcagggaaa aacaaaactc 240
gtggtcttgg caaataactg tcctcctctt gtgcgctcac agattgaata ttactgtcta 300
ctcgccaagt gcaacgtaca ccactttcaa ggggaataaca tagaactagg aaccgcttgt 360
ggaaaatact tccgttgtgc ttgttttagga aattttggac ctggtgactc tgatattct 419

<210> 1264
 <211> 340
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-023-Q1-E1-G11

<400> 1264

gttgtggagt aagtgcgctt ggcaacaaac taaaagatgg caagaagaat catcggagct 60
 tatatgtctg acgctactgt agcgtctcta tttagtgtga aaatgttggt ctaccttaca 120
 atacttgcgt tctctatcac tattgtgggt cttatgggta agagttccga cggatatttg 180
 gttcacagtg ttccagcgaa agacgaatat tgtgcataca agtcttccct tcaagtaaac 240
 caccacggca tagcttcta ttgcaagtat atcatggctg tagcagctat tggtttggtt 300
 atcagcttct tcgagttttg gtatgcattc ctcggaattt 340

<210> 1265
 <211> 362
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-023-Q1-E1-G2

<400> 1265

aaaacattgg ctgatagata tgcgtctcaa gcagttcaaa caaagactgt ggaagggttg 60
 gaaacaaccg ctgatttacg aaaaaagttg attgcgactc atattaacgc tctccctggt 120
 cgtttccaac gcgcaagaga agagttgaag gattttgtac aaaagactcg tacgttggac 180
 tttacgtatc ttgatgcgtt tcgttttggt ttccgaagct tagagttggc ggcattggtac 240
 tggatcggaa agaccttggg gaagagggaa cttcccaact cgatatgaag tgtgtcttcg 300
 gcaactcttc ttttctcgga aatacaagct tttatgtgct cgtgttttat aaaatatagt 360
 tg 362

<210> 1266
 <211> 432
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-023-Q1-E1-G3

<400> 1266

ctcagcttga ggaacaaaga gcttgcggtg ggttgacgt tatttatgaa cttgggctct 60
attgacacag gaattaatgc tccttttgac ccgtttgcag acgcctcacg tggagaggac 120
gcagcagtaa ccaaaaatat agtgcattat cgcttgcaac aaagaaacgg gcgcaagtgc 180
ttgacgacga ttcaagggct tgacacaaaa ttggatttga ataaaattac aaaggccttc 240
aaaaaggagt tttgttgcaa cgggtgtgtc gtatacgacg cagaactggg aagagtcac 300
caactgcaat gagaccagag ggataaagtc aaaaagtttc tagttcagga gaaattatct 360
gaaaaagacc tgataaaggt gcacgggtata tgagtgtcgt tgccgtgtaa agaaacaaag 420
cagtcgtcag tg 432

<210> 1267

<211> 436

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-023-Q1-E1-G4

<400> 1267

atttcttttg ggtgtgaaga gttgcgcaaa agagagaaag agagagaaat ggcaacgacg 60
agtggaagag gaggaggaag tggcggtggt cttaccggac ctccaaaacc accacctcac 120
gcagcaatac aagatggacc tcctcctggt gggtatccac cggtaggatgt tcgtagaaac 180
ttgccccaaag ttgggccttc cgggtactact ttgttgatag gcatcggact gatcaccatc 240
tatgggtttt ggggagcgac caaatcagct caacgtagaa gaagactgaa ccaggaaaag 300
tatcaaattc gattggctat tacgccgtat ttacaagccg aacaggaccg tttggaagtt 360
aaagagacgc atcgctgcct tcgtcaagaa gcagaactta tgaaggatgt tcctgaatat 420
caaccgggag aaaatt 436

<210> 1268

<211> 444

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-023-Q1-E1-G5

<400> 1268

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tcttatgtaa aagaatcaaa aaccaaagaa tatttgagc tagacgattc gttgcagcag 120
ccagtggatt catcttgtag caccaagtgg ctgtttattg caacccact gttggaagtt 180
gcttgactg atgggcagcg aattgaaatg attcctttga agaaagatat aaaggaattg 240
tttttctcta ctttaaagaa gaactttgag tcgaacgaag cgtcatggga gtgcagtgta 300
gttgaaaccg cagttgctgt ttttatccag tattatgaac agtgcggtga acagtactat 360
ctagcaggca aagattatga gctacctggt tattccanag tanaacagat tcggagtatg 420
attgaagatg ttctacaaat agag 444

<210> 1269
<211> 413
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-023-Q1-E1-G6
<400> 1269

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tttgatttat gttttgttc tccaaaggca gagttatttg tcgtttgacg cagttggaag 120
tgacgatcct tttcagatac ataaagacta tatggcttcc atgaaagttt ttataagaga 180
aatcgacagt aagttagcta tatttgacct gtcaagagct aagtgatacc gctgaaatgt 240
ttttctcaac tttaaaaaaa gaactttgag tcgaacgaaa cgtcatggga gtgcagtgta 300
attgaaaccg caattgctgt ttttatccag tattaatgaa acagtgcgtg gaaaaagtaa 360
aaacgagggg gcaccatta aggatctacc tgtttattcc agggtaaaac aga 413

<210> 1270
<211> 425
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-023-Q1-E1-G7
<400> 1270

cccacgcgtc cgtgccactg cacgtgttgt ttgttggggc aacgaaaagg ataagagagg 60
aaggggcaat gcatatatga aggaatggag ggaaaatctt gtgtaggaga caccctagga 120

aaaccgcaa atataaaaga tatacagcaa gacaaggaga acctttttaga atcctggacg 180
gaaacgagtc tttcatcaag aattgctcaa aagtggggaa agttaccgag taccagtttg 240
ttttatctac actctccttc tactagtatt gtcataaag agtctctctc ggatgagaac 300
gataaaaatc gcatcgattt ggaacaacta ttgcattcta caaagtcctt ttctatttcg 360
gacagccgct atccttttcag agacgaaaaa agcaccaacc atcgacaaca tttattacta 420
gatac 425

<210> 1271
<211> 406
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-023-Q1-E1-G9
<400> 1271

ccaacgcttc gggaggaacg atgaattggc aaaccggtcc taggaatata attgttaaaa 60
ggatacaaac gctacggctt ttctgggtga ttatttgcaa cgttttccca tatagttact 120
ctatacaatt ttatatgaac gctggaacga agcgttgtct ttcggaagaa attacctcaa 180
acacaaaggt gtttggtgaa tgtctttag tagtgcaaca gaagaacata gataagcagt 240
tgttgattcg aggacctcaa ggggagacta tagtgcaaca gaagaacata gataagcagt 300
catttagctt cacaacacca cagcacgttc ttgctggaga ttcgagtttg gcttccaacg 360
atattcactg gcctcctgca agttatcact tttgtttcga agctag 406

<210> 1272
<211> 338
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-023-Q1-E1-H10
<400> 1272

tcagcccacg agtccgcca cgcgccggt gctgtaaagt gagaaaacgt acgagaaaac 60
ccaattgagg aaaaaaaggc aagtaaagg cggccgaaa aaggaaagg cgtaagacgt 120
gatacagagt aggaaaaaca aaaaaaacg caaaaaaaa ccaagaaaa aacaaaagca 180
acaacaggaa aaagcgggac cagcaaaaaa aaccgaccga agaacaacag caaacaagac 240

gcaaagaacc caaaaaaaaaa aagggggggcc ccccaaaaag tttcaacttt atttaccgcc 300
 taatgcgagg ttaaaacccc tcaaaaaggc ccccaaaa 338

<210> 1273
 <211> 237
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-023-Q1-E1-H2
 <400> 1273

ccgccaaagct ttcacctctt cgagaggaac gtaatccatt gaccaagtgt gagaacccaa 60
 gtccatggaa aaggaacagg aaaggccaga caactaccca ggaggtctag agtacatcag 120
 gaaccacaca tcacggcagt atgactccga cacggagtaa tgtgaatgaa ggcaggaaac 180
 tcattcaaca cgagagtgtg ccgcgcgtac cttttccata atgtcccagc gagtgc 237

<210> 1274
 <211> 416
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-023-Q1-E1-H3
 <400> 1274

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 attgacacag gaattaatgc tccttttgac ccgtttgcag acgcctcacg tggagaggac 120
 gcagcagtaa caaaaaatat agtgcattat cgcttgcaac aaagaaacgg ccgcaagtgc 180
 ttgacgacga ttcaagggtt tgacacaaaa ttggatttga ataaaattac aaaggccttc 240
 aaaaaggagt tttgttgcaa cggttgtgtc gtagacgacg cagaactggg aagagtcac 300
 caactgcaag gagaccagag ggataaagtc aaaaagtttc tagttcagga gaaattagct 360
 gaaaaagacc tgataaaggt gcacggtata tgagtgtcgt tgccgtgtga agacac 416

<210> 1275
 <211> 401
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-023-Q1-E1-H7

<400> 1275

ggcgccatt acatacaciaa ggcgttggtg tggttgctat gcagtacata aaccgaatca 60
aagtgaagtt ttctcaaaag aaaacaagtt cctcccctgc acatactatt tcagatataa 120
gggaacacat tgaacttctt gagaggaagc agcaattaca gcaagcaaaa gtggatgccg 180
aggtacaaaa ggccaagaaa cttttaatgc aaaaggatag aagagggggcc cttatggcgt 240
tgaagcgaaa gaagcttctt gagaaggaaa ttgcaaacac ggaaaatatt cgttacaact 300
tgagagctaca ggctctcaca cttgagaatg caaacgcaag tgcacaaaca gtggacgcct 360
ttcgaagagg aaaccaacag ctgagaaggg ctcacgacaa g 401

<210> 1276

<211> 244

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-024-Q1-E1-A1

<400> 1276

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gcagtatgag tctggacttt ttggctgcag ctttggtttt tacacaattc aacaccgcac 120
atgaaacca tagtgtcagt agaaggctgc gtaaccatga cgtcatgttt acgcattcgt 180
cgacacattg agtgcaatga ctatgggaga aagtcctata tgactccaga aatcgcatat 240
atct 244

<210> 1277

<211> 414

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-024-Q1-E1-A10

<400> 1277

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cttacaaga agatgcagtt cgtcaagtag tgcaagaaat agaccaactc tatgccaat 120
tagtacaact tttagaaaca gccacaacg accttagtga cccaaggata ggaggaacag 180

ctatatcttt tcacgagtc attcttcgta ataagcgatg tggtcttgca tacttacttc 240
ataggtttta tcgtttgccc gatagtagat atctcgtaat ggatgaccga atagaagaaa 300
atttaagtgc ttctgaacaa gaattgttga caaactatga acaacttgta gccagctaca 360
gtgataaggt gcaaatagac attctctcgt cgttgtatcc aactcgagcg ttgt 414

<210> 1278
<211> 369
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-024-Q1-E1-A11
<400> 1278

gaggaccgaa tcagggttaag aggtacagga gcaagaagag aagagagaat gctgggtgga 60
gtagcgaaac aagagaaggg aagtaaaagg taagaaagag gaaaggttta cgagagaagg 120
aagtagaaag aagagagtgt aaggcggcgt cataatagaa atccgaaagg agtagaagaa 180
aagagagaga agaaagaaaa gaagagaaaa gccgtactga agaccgacac aggtactcga 240
ggagaaatga gacccaaatt aaggtgagag aatggacgat aaggaactaa gcaaaaggat 300
atggtatctg cggtagaaca tatgaaagaa gcagcaccga ctgttttagca aaaacacagc 360
actctgcag 369

<210> 1279
<211> 362
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-024-Q1-E1-A12
<400> 1279

ggcatattaa aaatactgca gtcttgtaga agctttcttt ctccttgctt tgataacaaa 60
cgagagagga atgaccttga ataaacgact ccactttttc tcacttgaaa aaaaaaaaaa 120
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aacaatacgg aaatactaaa agaagtactc 240
gatgaaaaaa gatacccaac ttaatgagag acaatggacg ataatgaact acgcaaatag 300
atatggtatc tgctgtataa catataaaag aagcagcacc gactgttttag caaatacaca 360

<210> 1280
 <211> 413
 <212> DNA
 <213> *Cyanidium caldarium*
 <223> Clone ID: LIB190-024-Q1-E1-A2
 <400> 1280

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 taaagttatt cttccataat gacaccaact tgtagtatac atagactcct gaaacagttc 120
 atcgctggaa agtattaccg gcaggttggt tattaagtcc tttactggtt ctgggcgggg 180
 aatatttggt atcaacatat gatgcaagac aaagtacaaa tgagacatca atacgtttgg 240
 cgcttagttg gagtgtttta aggtggcgtg tttctgctca cttgattggc acatagatag 300
 cattcctttt agcagctatc tttgcgtaat gtgggaaact ttcagtcggt atgcttaggc 360
 atgactttta ctatcactgt atgggtagtt atcaccctc cgaagtccta aat 413

<210> 1281
 <211> 450
 <212> DNA
 <213> *Cyanidium caldarium*
 <223> Clone ID: LIB190-024-Q1-E1-A7
 <400> 1281

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 aactatgcta tcttggtccc cataaacctc gcgtgttctt tctcggttg ccttttgaac 120
 ctaaattgta tagagtcacg aataacatag aacagtcatt gtctctcaat gtcttccctt 180
 gtctgactgt agtttttctt tggttttgca agtggtgaag gacatagcta cgtgctgttg 240
 tgactgcttc tttcgacatt gtttttttca ggatacatct tgctgtacat tttttcatgc 300
 atacctagag acttacactg gtagctacca agttaaagc acaggtcgat acaagtcaaa 360
 ggactagac aaaaccgcta tctacttttc cttcaacgat gcgactagaa agtgacaagt 420
 caatttgcaa gtggtagttt tgcaactgcg 450

<210> 1282

<211> 440
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-024-Q1-E1-A8

<400> 1282

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 ggagtgggtt cctgcacttt gggaaggga acaacaagca ccaattactc aaagaattta 120
 aagttacact ggataactag aacttgata tctttgaaa tgagacgtca ttcttcccca 180
 gaccaccaca ccgtaaagtt gcctctccgc atgatgaact cggagaacaa gacgcgaccc 240
 cgttacttgc aggagttgcc tttgattcct atcgacgagc tatactcgaa aagttttcgt 300
 tggaatcgaa ttggttgcta tgccgtgtac aacggtgacc aagcactttg ttatgtacgt 360
 tacaacatac acttgcaaag aaagattgcc tttcacgcca tgttgcaacc agacaattgc 420
 aaatttttca ggcctttgt 440

<210> 1283
 <211> 430
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-024-Q1-E1-B1

<400> 1283

cccacgcgtc cggaacgttg gaatgaatat ttagattggg ctgtgaaagc ttttcgtctt 60
 agtacggtcg ttgcagcacc caagactcag attgtcaccc atttatgtta tagtgacttt 120
 caagatatcc taaaagccat cgatgagatg gatgccgacg tattaacccat tgagaatagt 180
 cgtagtgatg atgccatggt gcgtgccctt gccaaagtat gttattcacg tgatgtggga 240
 cctggagtct atgatgttca ttcaccggct gtaccgagca tcgaattttt gaaaaagaaa 300
 atggaaggct tcaaaaagtc tggattcct ttggaacgct tatggattaa tccagactgt 360
 ggtttgaaaa cgagacaatg ggaagaagtt attccttctt tgagaaatat ggtggatgtt 420
 gctgtgcaat 430

<210> 1284
 <211> 426
 <212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-024-Q1-E1-B10

<400> 1284

agacttgtag ctgttggtgt agttttatcg agcgtatgtc aagatgttga agaactggta 60
aagctactgt tgacgaaact ggagataagc cagtctttgc gtaggaaatg tttcgcaaag 120
ttttacgagt tgctaactcg aggcgtatta ctggaagctg gtcttttgca tgtcctcttg 180
ttggtatttc caacttatcc atcgattct tatgatgttt tccataatgc tgaagatgta 240
gttatgttat tgtatagaca aatgcgttgc catgagaacc ttattgacct gcagagttgt 300
tttctaactt ttttgatgaa atggattcag tactttcctg aaacaactga lgtggtacta 360
aaaattttca agcgttatgc aacccatcaa gatcttgaag tacagaaccg agcatgtgaa 420
tatatg 426

<210> 1285

<211> 411

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-024-Q1-E1-B11

<400> 1285

gaggaacgat gaagtggcaa agcggtccta ggaatacaag tgttaatagg atacaaacgc 60
tactgctttt cttgttgatt atttgcaacg ttttcccata tagttactct atacaatttt 120
atatgaacgc tggaacgaag cgttgtcttt cggaagaaat tacctcaaac acaaagggtgt 180
ttggtgaatg tctttagtc ggtgcggaag gtcctatgtc cgtagatctg ttgattcgag 240
gacctcaagg ggagactata gtgcaacaga agaacataga taagcagtca tttagcttca 300
caacaccaca gcacgttctt gctggagatt cgagtttggc ttccaacgat attcactggc 360
ctcctgcaag ttatcacttt tgtttogaag ctagtcctct tegtctctct c 411

<210> 1286

<211> 435

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-024-Q1-E1-B3

<400> 1286

cgatgacttt tgtgtgaaat agtaaagccg ttgagatgca gacctttttg gataagacgt 60
gtgagacgac atcgacgttt atatagtaga gcttttattg ttgccaaactt tttctttctc 120
tttgacgttt tttatacgct ttcttccagc agtctgtact atcatagata tcttcacagg 180
agtagtgta cgaataactt ggtagcaacg agtaggttg tagctctagt gtcgtcaggt 240
tggggttttag atcacttgct ggatattcct agcgctgcct tgaatctcag aagtgtcact 300
gctttggaca gtctttttaga gtctgtgaac aggaatagag attggtcagt aagagtagta 360
ataactcatt ttatgggtact gaagaagcca gatgtgaata caatgacgtt gttgttgcac 420
tgtcccacaa gtaat 435

<210> 1287

<211> 437

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-024-Q1-E1-B4

<400> 1287

cccacgcgtc cgcggaacgcg tgggtttacg attcatgcag gtgtattggt gagatatggt 60
ccgttgactg ccaatcggtt gacaggtatt gtctcccgag gaggatccat tcacgccaaag 120
tggtgccttg cacatcataa ggaaaacttt gcatacgaac attgggatga aatttgtgat 180
attatggcgc attatgatat cgcattttct ataggagatg gtcttcgtcc tggaagtatt 240
aaggatgcca atgatgaagc acaattcgcg gaattatata cacaaggaga acttacaaga 300
agagcttggg aacatcatgt tcaggtaatg aatgaacgac ctggacatgt gcctttgcac 360
aaaattccag agaatatgca aaagcagttg gattgggtgtt cagaagctcc gttttatact 420
ttgggtcctt taactac 437

<210> 1288

<211> 438

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-024-Q1-E1-B6

<400> 1288

cggaagagac tacacatgag tagatattgg acgttggaag aacatgaaag gttccttgaa 60
gcaagaaaga tatatggtac tagagataca aaatctatag cagagtatgt gggcacaaga 120
acagttactc aagtaagaac acatactcaa aaatttgaaa agaggttgga gttggcaaga 180
agaacgggag gaccagggtt tcgtgttcgt tccaaaaaga gtagtcaacg caactggaga 240
aatagggtgtt ttgtagacaa ctggagaaac ttacacgata gttgcttgag ttcgaatagt 300
agcagtgtta ctgtccaaaa aaatgaagaa gacacacaac ctgctgagta tcatgcggat 360
atccatagtc catcttccat tcaacaaaca gatatgtgct caaacactac tgctgcagaa 420
tcagattctt tcgagctc 438

<210> 1289
<211> 442
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-024-Q1-E1-B7
<400> 1289

cccacgcgtc cgcccacgcg tccgcttggt cgcattgtgg attggagagt tggtagcgtt 60
gcactgcgat ccacgacaac caaaagaaca agaaagaaag aaacaaaatg ggatggtgga 120
tactttctcg tctcctttct cgtgtacgtc gtagtggctgc aatggacgat gcttgttcat 180
ggaaaagcca aagatatttt agtcgtcgag cacctagaaa gaagcaagta gaggatgata 240
tcttcgacaa tagcgtaaaa aaagaaccgc gaaaactttc agaatttaac ctttatatga 300
agaagatgtt gcctgtgatg aaacaacaac atcccgaact gagccatcgt gaagtattta 360
aaatgtgcgc tcaaagttgg aaacatgcca gtgaaaatcc aaagaaacgg agatgagtgt 420
tgtttgtacg tacgctttcg ta 442

<210> 1290
<211> 439
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-024-Q1-E1-B8
<400> 1290

gtcggccaag gcgtccgata actttggtgc attattgcca gtgacagtag aagaaacata 60

acaagtccaa acttttttga ctcaattttg atttctatct aaactggcat tgtaaataga 120
 actcagagtg tcaagttacc ccttttttga ggaagagagt gacaatgggg ttgcgttacc 180
 aaggcggcat gtctacgcag tcgtcgacac aagaaaaaaa gaccaggtca aaaaaccgaa 240
 tgtgactcga taaagagtaa acaagcgtag ttcttgtaac gtagcagccg ctgattcctc 300
 ttttacatag ccagctgttt gtgtcatcgt ctcttgcgta gggtggctcc ggtataacaa 360
 gccacaaaag ccaatcttgg aatcgctcgc gctttatgcc gattgatgat tcaagtttat 420
 ttgaaagaa aaacaacgc 439

<210> 1291
 <211> 384
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-024-Q1-E1-B9
 <400> 1291

cccacgcgtc cgagaatatc aaaagagatg gaagaagagc actgttcttg acacttgcaa 60
 gctttattgt agcaatcagt tttttccaag gtcgatagtt aacactaaac agtcgatgaa 120
 cagcacttgt ttatgtccta cccgtaagct aaggggagaac aacggaaacg gtatagtttt 180
 ggtaaactgt gggtctttct caccataaac acttgacat cttctgttaa tggaatctgc 240
 gcacaatttt gcagtttata gaggttttca agttctaggc ggctacttat ctcccgttca 300
 cgactcttat cgcaagacag gtcttatcca tagtagacac cgcttagaga tgtgtcaact 360
 cgccgtagag gactcttctt ggct 384

<210> 1292
 <211> 441
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-024-Q1-E1-C1
 <400> 1292

agttgcggtt gacgtggggt agtgggtcaac caagagtcct tgggacacaa actatgtcca 60
 caacttcata agtttgtaaa gtttgagtac ttgcaatgag ctatctagta ggaaataccg 120
 aacaagactt acaagccaag aaaccaacat atgaagaact ggtggccgaa ctatctcaac 180

tcaaggcgga tttattcgca gaaagacaca aaagaaaggt agttgaacaa gagttgaaag 240
 agttgaaaca gttgtcgttt tctatgcaaa ctcatatcga ggcagaagag gagtatattg 300
 cgaataaact cataaaacgg ctcacagagt tgaaagagga aaaggaacgc ttggctgtgc 360
 aaatagagca agaagaagag tatttgacga ataatttgca acaaaagttg gaacaactac 420
 gaagagagaa agtaaattatt g 441

<210> 1293
 <211> 434
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-024-Q1-E1-C10
 <400> 1293

gcttgacgta caaaatctcc atctacagtg tgtcgtaaag ggtctgagct ttactattct 60
 gcatatgcaa agctcagtcg caatttctac tgttcatgga ggaagattca cgcaacagta 120
 acgtcttttt ccgactggac ggaaacaagt ttcggagagt ggctttattg ggtgcaaaag 180
 gggtcgggaa gtcattccatt gctaccgct ttgcagaaga cacctttttg gactcgtaacc 240
 ttccaacat agaggattcc tatcacgca cttgcagaca caaaaacgaa acttacaact 300
 tggagatatt ggacactgga ggacaggacg aatattccta tctcggaaca cagctgacta 360
 tcggagtaga tggatatgtg tttgtttatt ctatttgca cggtgcttca tttgatatga 420
 ttctgttgc ccat 434

<210> 1294
 <211> 355
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-024-Q1-E1-C11
 <400> 1294

cccacgcgtc cgcccacgcg tccgcccacg cgtccgaaat tgtgggagag cgagttttgg 60
 gtattttgtg tcctcaagca gtcattgttg gtttctacc gactatatca actgtttccc 120
 cctaggacaa agtgaaagtt gccactgttc ccacgtatct aaatacaggg taattataga 180
 aaatagtgtt ttttgaaag agaggtaacc atataaaaca aaggttgggc agcgttttgt 240

cgcaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaggcaaac acacaaaaaa aaaaaaaaaa 300
 aaaaaaaaca tgaataaaac atcagaaagg cataaaaaat gtaaactcac aacaa 355

<210> 1295
 <211> 415
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-024-Q1-E1-C12
 <400> 1295

cccacgcgtc cgcccacgcg tccgcggacg cgtgggcgag ttggcaatga gtgagttggt 60
 gcgacctggt cgtttctttg atagcggctt tggtgactta ttttcttgga cgaatgaccc 120
 cttcttccgt gatgcatgga acttgatacc tcgagtaggt ggagctgagt ctgagttatg 180
 gtcgccgaga atcgacctca ttgaaaaaga agacgcgttt ctggtgaaag ctgaggtacc 240
 tggagtaccg agagaaaaca ttaaagttga cttgaaaggg gatattcttga gtgtgtctgg 300
 agaaaaggct gacgaaaaaa agtcggatga agaacgagaa ggaacggtat tccataggat 360
 ggagagaagc tacggaaaat ttgaacgaag tatacgacta ccaaagcaga ttgac 415

<210> 1296
 <211> 421
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-024-Q1-E1-C4
 <400> 1296

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 tgtcaaaact gcatcgctac aattgcattt tgtttgtttg aatgacgtga taactttatc 120
 ttttctgtac cgaccacttg aattttcatt ggtgaagaaa tgtcgaaagc cacagttgag 180
 acgtgcccaa ggcttcactg tatatcacgc aacgagcatt gtcgttgtat tggcattatg 240
 tattgcagct ttcagtggat atttgtttta tcgacgcacg aaacgacagt caagactctc 300
 tacgacaaag ggagactaca ggcctcttcg actgaacatg aataatttta actaggcaag 360
 aatgcggttt attcatttgt tcctgtatth gttggatatt cttcactcan acactctata 420
 t 421

<210> 1297
 <211> 434
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-024-Q1-E1-C6

 <400> 1297

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 ccaatgcggt gaataagctt ttggtggaat ataactttcc gtccattgca attcatagta 120
 gcatgccaca gtcggaacgt atctcaagat atcaaagtgt taaagatttt cagaagcggt 180
 tactagtgtc tacggatatt tttgcacgag gaattgatat cgagagagta aatatcgtga 240
 taaactatga tatgccggat ttgaaaggtc cagaagctac agcaaagaca ggagcggatg 300
 cttatcttca tcgagttggt cgtgctggtc gctttggaac gaaaggattg gcaatatcat 360
 ttattagttc caaagacgat aatgacgtgt taaacgaagt acagagtcgc tttgaagttt 420
 ccatcgagcc cctt 434

<210> 1298
 <211> 420
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-024-Q1-E1-C7

 <400> 1298

ctgacgcgtg ggggaagatg ggagactcag actattcatt ttctcttacg accttttagtc 60
 ctagtggcaa gttggttcaa atagaatatg cgttgaacgc tgttgctgcc ggtgctactt 120
 ctcttgggat tcgagcgaaa aatgggggtcg tgatcgcgac ggagaaacgt atgccgtcca 180
 ttcttatgga aagtcatact ttagaaaaga tatcttttat ttcggaaact acaggaatgg 240
 tgtattcggg tatgggtcct gattcaagag tattattgag aaaggctcga aagtttgctc 300
 aaagttacta tcaaacctat aaagagccca taccagtcgt tcaacttgta cgagaaacag 360
 ctttcgttat gcaagaattc acccaatctg gtggcgtaag gccttttggt gttagtttgt 420

<210> 1299
 <211> 396

<212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-024-Q1-E1-D10
 <400> 1299
 aaaatgtctc aggaataacca gctcacctac ttcaatattc gtgggttagg cgaacctgtt 60
 cgtctactat ttgaagacaa tggcatcaaa tactcggaag agagggtaga agctggcgag 120
 cagtggcaaa aactcaagca agaaggtgtg tttcaggca agatccccctt tggtcagatg 180
 cctgtattgc gcgatgggag catgtattta gcgcagagtgt gtgcaatact tcgtcattta 240
 gcgagaaaaac ataacctcta tggagacacg gaagaagaga aagcgttggc ggatatgatc 300
 aacgactttg ccaacgatct tcgaactccg tacgtgcgca tgatttacag tgatacgtgg 360
 aaggagatgt tacccgagta tttggaaacg gcgaag 396

<210> 1300
 <211> 413
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-024-Q1-E1-D11
 <400> 1300
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 gtatttggat ttcttgttcc atttgcaagt ccaaaaagggt tatgacattc aagagcatga 120
 gacaaaatgt tggcagatga taacaaaact tcagaaggat acttcagaac aggttcgaag 180
 cgaagttatc gcaactgttc gatggattaa aaacaagtcg ttactagaag ggatgggttcc 240
 atgggttggtg gaaaccatga aaactagcac ttcgtctaata gaacaatatg cagctgaaca 300
 gactcttcga aaattgtatc aaaaagggaac acttttaacg ctttctctag gcgaaggaga 360
 gaactcttgg attaccagca acatggccccg tttgcagttg gctgtaggtg aaa 413

<210> 1301
 <211> 265
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-024-Q1-E1-D12
 <400> 1301

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 aaaagagggga gtagatgagg aaagaaagat caaggaagta agagtaagag aaggagtaat 120
 gtgaatgaaa gcaggaaagt atttgaagaa gagagtgtaa agcgcgtagc ttttgcataa 180
 tgtcccagcg agtgaaagag gaagcaaaaa gaaagaaaaa gaagtagcca ggtaagaccc 240
 gaagctagtt gatcttatgc tgtcc 265

<210> 1302
 <211> 432
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-024-Q1-E1-D2
 <400> 1302

ggaagaacaa aaagacaatc ctaataagac cgcttccgtt gtttctgaac aagacaacca 60
 aagtgaacaaa gaacaagata caacaacaac tgttcaagaa gagcaacaaa agtacaacaa 120
 taataacaac aatagtgaga actctacagt ccttggtgaa gataccaagt cccaactagt 180
 gagagccttt gcggatgtta ccaaggtttc gtcttctcaa gtaatgcaa gctctgcaag 240
 aaactgtttt acaaactatt gattgggttac taggctgaag aatatcttga aaacgccaac 300
 tgggagctac aaacagcagt acgacaatac ttgataaca acgagaatgc gactatcgga 360
 gaaagctctg tccctactgc ggatagtatt gcagcacaca ttacagaaat aagaaagaaa 420
 gcaagtgaac tt 432

<210> 1303
 <211> 222
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-024-Q1-E1-D3
 <400> 1303

gtgcactaca aatattccca atccaaaaaa taaatacgaa aatactcaag ctttatttaa 60
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaagg gagggaggag ggggggaagg aaagagggtt aagggggaat ggaaggtgca 180
 agggacgtta ggggtgggcag taagggggaa tcaattggcg gg 222

<210> 1304
 <211> 319
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-024-Q1-E1-D4

 <400> 1304

cccacgcgtc cgccccacgcg tccgattctt acctgaaacc aagggcttta cattggaaca 60
 aatgagagtc gtgtttgagg agggtttatt caccatcgca gcttatcact gtcgtgctgg 120
 ttggagaaca cttcgtaagc ttttgggact tccagttcca gacactcctc ttgtttctcc 180
 ctatgataag gcctacgcta ttgaccgcgc taagagagaa gaagagatga tgcattgctgg 240
 cgaagtggcc aagtaatgct tgacatgatt tatattgaga tggtagtttg aaataaacat 300
 aaatcttgct tggttatgtt 319

<210> 1305
 <211> 429
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-024-Q1-E1-D6

 <400> 1305

ctcaagtgga tcatcccacg ttggtaaaga tagacttgtc tcaaggcagc tttaaagtac 60
 tccaagactg tgacagagat ttagaatgtg atcataatac caagtttcag ttggaactta 120
 ttcagtatgg tctcttttca cctgggtttt ggacgagaga aaatgttctg ctcttctatt 180
 tggagctcgt gtcagggtgta ttcataaggg acactctcta ccttttctac aacaaagggtg 240
 aagaacattht gtttgcgagt ttaatgctgt tgttggagac acaagtttca ctgtatgcag 300
 acataaaaaac aaactgggag aaacgacact ttatcgtttg cctcatcgtc aggtctttgt 360
 gtgaggaata tcaacgacag tattcagagc tatgttcacc gaatgaaagc acgaaagata 420
 tgctactag 429

<210> 1306
 <211> 422
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-024-Q1-E1-D9

<400> 1306

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cggcgggactt cacgatgttc tttggacttg agtacttttag aggagtcaca aaaggagaac 120
ctaaatggca aagagataga ctgtattcta acacctgaaa aaagaaccat gccaccttcc 180
atatccacga aagaaataga aaatgttctc aaccttttcc tttcttatga tcaagataaa 240
gatggtaaaa tcactatcaa gcagcttaag gaattattat cgtcgctttt tactcaagaa 300
agaattggaa agatttatctt cttcaacttt ctgtagatag tttgtatgat agtgggtatta 360
tagactggat tggttaagcaa cttgaagcgc ggtcgattcg tcgctaactt tggcattttt 420
gt 422

<210> 1307

<211> 418

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-024-Q1-E1-E1

<400> 1307

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cgatatatcc aaaagtcctt tctcacttat ccatcacttg gacagttgag tagtaaattg 120
cgccactttt ccacagcacc ttgggtacaa gatacttttg aggaatattt tacgtttcct 180
agagagagtg aaagaaataa ctacgcagtg aattggctcg tggcaaagat aggagtgcct 240
ccaaagggtg aagtttttta caacgtgcct tcgaggacga ttgttgccaa ctcgcctgga 300
aagcttagcc gtgagaggag gcacttggtg gtcccccatc aaaagacggg caacttcag 360
gaatttgtcc taggaaataa cttgaaaccg agagaatatg caaaagcctt gaaagctg 418

<210> 1308

<211> 415

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-024-Q1-E1-E10

<400> 1308

accttacctc tccaagaagg tgttgcacgg ctgtcgaaag aacgtgctgt gaagtgaagag 60
aacgtacgag aaagccaagt gagggaaaaga aggcaagtag agggcggccc gagaaaggag 120
agggcgtaag acgtgataca gagtaggaag aaaagagaag agagctagaa aggaggtaaa 180
agaagagtaa aaggactaga agaggtacgg aattcacgag gaaggagcgt gaaggaagga 240
ggaatcccaa gtaatcgagg aagaaaaagc ttcggtgaaa gcgtgaacgg attttgtaca 300
cactgcccgt caagttctgg aagtgtgcta ggaataagca ggagaagtag aagagagtag 360
gaaaagaaga aaggaagtga agacgtaaga cgtgaaaaaa aagcgtatga ctggg 415

<210> 1309
<211> 414
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-024-Q1-E1-E12

<400> 1309

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gaaaagttac tcacagtttg ttttattcgc aactgtgttt gtatgtcttt tcgcacgagc 120
ttgcaatggg agaacgtcag aaagtctaga ttggctcggg ttaggagatc cagagtttgc 180
gagtttcaac gggcgctttc caactttaag tgatttgaag cgtttattct tcgaattagg 240
ggaaaattta gcggaaagaa tagagttatt gggttctgta actcaacact ctagtcgaaa 300
gtttctgaat agaccatttc tttcttgccg aaataggaaa gcagccaatc ttatcaaggg 360
ctggttagaa gaggcaggct gctataacat ttctatagat ttggttggtg atgt 414

<210> 1310
<211> 426
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-024-Q1-E1-E2

<400> 1310

gtcgtgtacg agggttgggc atttggtgag ctgaagagtc aatgaacaag cttcagttgc 60
tatacgtaac caaacaagct gtttcaaaag catggcaaag agaacagaaa aggttatact 120
ccgagaagaa atcagttgca gaaggaactt tggaagcag gtggaaggaa agagaaactg 180

cacaagagag cgcgtacttt aatcgtgaag atgatgcagg cagtacaaag gtttagcagcg 240
 aaacttcggc agcatattga gccatcggat gaagtactcg cccaacaaag aaaaggcgtg 300
 gcagaaatct tacaaaagca cgggtgtccag cctaatacaa gtttgattga agatattgtc 360
 cgtttctttc attaatctct ccgtgtttga tgtttagctg ctgttcaacg aaagttttgt 420
 ttggga 426

<210> 1311
 <211> 397
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-024-Q1-E1-E3
 <400> 1311

cggacgcgtg ggcggacgcg tgggaggacg cgtggggggc aatgtacagg gaagtatgac 60
 ccagtaatga ggagtggagt aaacagaaaa ggaagtaaaa ggagggaatg aaggggaagtt 120
 atggcaaaaa cacgtgccag cagcagcggg aaaacgtgtg tagcaagcgt agagcagaag 180
 aactgggtgt aaaggctcag tagtagagta agtgtaaaag ggaaaggaaa ggagagaaaag 240
 aggaaaggga tgaaatgcag agatctctag agaaaggcaa gaaagaaaag aaaggaagac 300
 acagtaaatg aggcgagaaa gcataggaag tgaaacggat taggaacccg tgtagtctat 360
 gcagtaaaag aaagaatgag taagaaaaaa gggagtc 397

<210> 1312
 <211> 226
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-024-Q1-E1-E4
 <400> 1312

cttcattgga aaaggaccaa ctgggaaagg aagctcagtt gcatcaggat agtgcctaag 60
 aagaagcaat gttggttggg tgttgatgtg ttggtggtgg attgtgtaca tatatagaga 120
 gagtgtgtgt gagagaaaaat gctttgtgag tgaccactcc tcaaaaggca gtgtgaacaa 180
 atcctcacia agcaaaagag gaaaataaaa gctctttggt gatttt 226

<210> 1313
 <211> 444
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-024-Q1-E1-E7

<400> 1313

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 atcccacggt ggtaaagata gacttgtctc aaggcagctt taaagtactc caagactgtg 120
 acagagattt agaatgtgat cataatacca agtttcagtt ggaacttatt cagtatggtc 180
 tcttttcacc tggtttttgg acgagagaaa atgttctgct cttctatttg gagtcgltgt 240
 cagggtgtatt cataagggac actctctacc ttttctacaa caaagggtgaa gaacatttgt 300
 ttgcgagttt aatgctgttg ttggagacac aagtttcact gtatgcagac ataaaaacaa 360
 actgggagaa acgacacttt atcgtttgcc tcacgtcag gtccttgtgt gaggaatatt 420
 ancgacagtt atcagagcta tggt 444

<210> 1314
 <211> 421
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-024-Q1-E1-E9

<400> 1314

cgaatgtttt cgtttctcga aaaggaaaaa cgctctatta ggccaaagtg aacgactagg 60
 atcttctgca agtgcagtgc aacttgatg gcgcggattg ggatgataat aatgagcgcg 120
 agacacgcca caaatattgt ccaagataag cagttacact tgtgacacag tgaaggttca 180
 aggcaaccga ggacagactc tagttctcga ggtggaacag gtgcctgggt cgcgcgaaaa 240
 aacataatta tcccaaaagt ctggaattca aattggctag gtatcggaaa agccacaggc 300
 acttgctata caaagagtcc ttccggctgt tggcgtaag gccatccatc tctcttgtgc 360
 aaggacgttc atttggggcg ttttggtggc ggtgcaccgc atataaaaatt tcttcaagtc 420
 c 421

<210> 1315

<211> 443
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-024-Q1-E1-F1

 <400> 1315

 gcggcgctcat aatagaaatc cgaaaggagt agaagaaaag agagagaaga aagaaaagaa 60
 gagaaaagcc gtactgaaga ccgacacagg tactcgagga gaaaggagac ccaaattaag 120
 gtgagagaat ggacgataag gaactaggca aaaggatatg gtatctgcgg tagaacatat 180
 gaaagaagca gcaccgactg tttagcaaaa acacagcact ctgcagaaaa gagaaaatgt 240
 aaagtataga gtgtgcggcc tgccaaatag tagagaagaa atcgatgaaa gtgaaagcga 300
 gtaaaagatg aggtatagag aatggcggtc ctaactgtaa ggatccaaag gtagcgaagt 360
 aaatagacgt ttgaaaggcg tccagtatga aaggagaaac gagtgtaaca ctgtctagtc 420
 gtccaactca gcgaaacagc aat 443

<210> 1316
 <211> 429
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-024-Q1-E1-F3

 <400> 1316

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 aacatattga aagcttttga atgtgttaaa gagactgatt tttctttatt tttgttttcg 120
 tgctagaatt tgtttatggt tccgtgttgt cgcttttctt ctattttctaa aggacaagcc 180
 tttgaacacg ctgtgttggt gtatctttcc tacttgggtt ttttcatacg tagtactgga 240
 ggagttggtg acggcgggtat cgactttcgt ggaacttgga aacctaataa agcaatagag 300
 cctgtacctg tcgtcgggtca gtgtaaagca ttatcaggaa aggttggtgt tcacgttatc 360
 agagagatgg aaggaatctt gtgccgcgaa gagcctggta ccttgggtgc tatagtgagt 420
 gagaagggt 429

<210> 1317
 <211> 385
 <212> DNA

<213> Cyanidium caldarium
 <223> Clone ID: LIB190-024-Q1-E1-F4
 <400> 1317

cggacgcgtg ggggccagtt tcctcaggag ccaatgaaga aactttttgt caaaatatta 60
 tcttcgaagc tgatagtatg gaggaatttt gcaacaatta tttcttcgct tctacaagtt 120
 ctttgggcct aggatgcctg aaacattgcc tcagaagggtg cgctcacctg gattgtctgt 180
 cagaagacca aggggaaaga cttacaccag agtacacgtc taacgagtgt actgttcaaa 240
 atatttgttt ccctgagctt gcaacggaga tatctcaaga tgaagtttta gagaactatc 300
 tagttgatga ttaccccaat agttccaacc ataattttgt gatcgaaagt tggcgttcat 360
 tccaaaaaga tgatttttctg ttgtc 385

<210> 1318
 <211> 418
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-024-Q1-E1-F5
 <400> 1318

cggacgcgtg ggggtggtgga ggaggacgag tcgacgaaag atcggttgga tcgctacggc 60
 tattccgaga tattggaaaa cctatgggaa atggagagtg gagaactacta tttgttggtg 120
 ttccaaaaga gatgaacacg aagaagatat tcttggaata ggaaatagta cccgaatgac 180
 gagacctcaa ccacctccac cggaaggttg ttgtggcaat ggttgtcctg actgtgtatg 240
 gacggtttat ttacgacaac tggaggaata tgaagaagaa caaaataaga gaaaaaaagc 300
 acgagatgat agataaaaag atattcacgg gtatggctgt ccaacgcgcg gcatattttc 360
 caggatggat aaaaaagcca acgaccacag aaaaaataa cacagctatt cgtgcgct 418

<210> 1319
 <211> 450
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-024-Q1-E1-F8
 <400> 1319

gggccaacca agcctccggg ttgtatggaa ccaattaccg gaaaatgtta tgaaggcggt 60
 aacggcattg tttgaaattg gcccggtttt ggtaaagg ttttgggaac cacgggcgga 120
 tggctctgtc caacaaggat tggttcccaa ggttgccaac caattggcct tggaaatggt 180
 taatggggca tgtaaacttg ccaaaaatga taacttacac tttgcacaac tccgcaatca 240
 agtcgaatct cctgcgggaa ccacagttta tggtagatca gcgttggaaa atggacaatt 300
 ccgaaaggca ttgattaatg ccattcagga ggctgtttta cgtgcaaac aactttgatt 360
 attcttgtgg atgatcactg tcattattat tattgttgtt gttgttgttg ttgtcatgat 420
 gatcatcaga atgtggatga tggatatgaa 450

<210> 1320
 <211> 406
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-024-Q1-E1-G1
 <400> 1320

aggacagcca atagcagatg gattgaagtt aatgataaaa gagggagtaa agccaacaag 60
 agcagaggga atgatgtata aagcagggcc agtagtaaca tggatgttat cgatgctagg 120
 atggagtgtg gtaccaatag gagaaggaaa ggtaatagtg gatatagaag tgggaataat 180
 agcatggatg agtataggat cattgggagt atatggagta ataataggag gatggggaag 240
 cagttcgag tacagcataa tgggaggttt aagaagtga ggcagatgg tatcgtatga 300
 attaggaatg ggagtaatga ccctgtagtg acaccttgtg gacacttgta ttgttggctc 360
 tgtatataca agtggatggt tgctcatcct gaatgtcctt cctgtc 406

<210> 1321
 <211> 419
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-024-Q1-E1-G11
 <400> 1321

cccacgcgtc cggagcgcta ccggtgcttt tccatcctcc gaccacagca accactcctc 60
 tagttcgct caacgactat tacaacaaat ggaataccaa aatggatgg aagataaaga 120

aaacgaagca cgtcaagaaa tcacgcacac gcatacataa gtgatggatg gcagtctcaa 180
 gtccaagatt tcttcttgtt cacaggacaa caacgatggc aagaacatga ggaagaaaga 240
 ggcaaatacg ggaaagcagt aaaagaagaa agagaaagga aaaaactgag tatcaggaag 300
 aaaagaggga gtagatgagg aaagaaagat caaggaagta agagtaagag aaggagtaat 360
 gtgaatgaaa gcaggaaagt atttgaagaa gagagtgtac agcgcgtacc ttttgcata 419

<210> 1322
 <211> 447
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-024-Q1-E1-G12
 <400> 1322

cagtacggtc aggattccgg gtcaccagcg tccaccagc gtcgaatacg agagcaaaac 60
 tgtcaaaactg gtaattatgg ataaggaatt ttttgaagta gacacaagca tggtagccct 120
 ttcggaacca ttaaaaaccg tctgggaaaa tacggaggat acagaaagaa taccctgtgc 180
 aaaggtaaaa ggacaaattc ttgcaagggt tatcgaatat tgtagatctc acacactctt 240
 aaagaccatt ccacactctg aggatgatat tgagcgctga gatagggaat tcctaagtgt 300
 atatcaacca cccctttaac atttgattct ggctgcaaac tatttggata tcaacatctt 360
 gttggatata acttgtaaac gagtagcaga tatgatcaga ggcaagacgc cggaagaaat 420
 aagaaaagag tttaatatgt taaatga 447

<210> 1323
 <211> 436
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-024-Q1-E1-G2
 <400> 1323

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 agcaaaaaca cagcactctg cagaaaagag aaatgtaaa gtatagagtg tgccgcctgc 120
 caaatagtag agaagaaatc gatgaaagt aaagcgagta aaagatgagg tatagagaat 180
 ggcggtccta actgtaagga tccaaaggta gcgaagtaaa tagacgtttg aaaggcgtcc 240

agtatgaaag gagaaacgag tgtagcactg tctagtcgtc caactcagcg aaacagcaat 300
aactgtgaaa atgcagtaaa ctagcagtag gacggaaaga cccaataatt cttgactaga 360
taggtttagg gaggagagag aatcatgaag tanaggaggt ggggtaagag atgaaagacc 420
actgcatgag gataag 436

<210> 1324
<211> 421
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-024-Q1-E1-G3
<400> 1324

gtggttttga aatgtggtct ttccactctc ctgcaagagt ttcaaccctg cataaaagcc 60
aggagacttg ttttctttcc aaggacccta tggatagtag gctggaatct gttacgtttc 120
taggaaatat taaaagacag acacgccgtg tactgagaaa aggcgctgct tctttgtttc 180
cctatttgca gtcgtctgtt ccaaagcttc ctacgaaata tggggctttg gttgcctgtg 240
cagtcaagtc tctcatagct gccttgattt atatttcagt atccgttagc cttacggtgt 300
ttaacaagtc tatttttcaa aactatgact ttcaagaaac tactgttctg gtctgtagtc 360
aactttccct cactattctt attttgtttg ggcttcaaag aacagagcga atttcgacga 420
g 421

<210> 1325
<211> 435
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-024-Q1-E1-G4
<400> 1325

cccacgcgtc cgcccacgag tccgtgatga cttttctttc aggtatttta agagttgcat 60
ggatgtcaca tccttatcgt ggagactcgg cccctaagcg catcgtgatt caacatctgg 120
tgacttgtaa aaattcgagc gatattttca taggttccgt agatattcgt gatttgaaga 180
gtgaagagag tttgattgct tcattatctt ttccatcagg tacagcggaa gatgtttctt 240
tggcgtctca ctttcgctgg ggactattga atagtggacc ttgggagaat ctccaacca 300

tttcttggtt cttttcaggc tatcgaatag gtcattctgt gtcattctcat gacttgcctt 360
 gtccctcggtt ggagattatc cgcaaagtgg tgcataaaag ggatggaacg aagatgatag 420
 aaatggtggc ttcgt 435

<210> 1326
 <211> 432
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-024-Q1-E1-G5
 <400> 1326

cccacgcgtc cgcccacgcg tccggtcaaa atgagatttc cacgaaccga tggatagctg 60
 ttttaagcga ctccacaatt atgattgacc tcacaaccaa catgaacggt aacaacaacg 120
 atactgatgt cgcacttggt gaatcaagct tccctcgagg ttctgtcgaa tatattatcg 180
 agagggacat cgagagaaaag ctttttaagt gggcgaatat gaatgcgaca cacagtgcctc 240
 caaaaaactt cccttttctt gacccaactt ctcttgact tgcaggattc agtgctacca 300
 cgtttatatt gagtgtattc aacgcaaatt tattgccttc ttccatatca agtggcgctca 360
 ttggtgcagg atttttctat ggtggagcca ctcaattgat tgctggctctg ttgtgttttg 420
 ttactagaaa ta 432

<210> 1327
 <211> 441
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-024-Q1-E1-G6
 <400> 1327

ggcccacgcg tccgcccacg cgtccgccc cgcgtccgcg cgtttggatg tcatggtgat 60
 gcccaattta tatggcgata tactcagtga tttgtgtgct ggtctcatag gtggattagg 120
 actaactcca tcaggaaata tgggacaagg ttgtatgttg gcagaagcag ttcacggcac 180
 agcaccggat attgctggaa agaatatggc caatccaacg gctctcttat tgagtgcctt 240
 tatgatgggt cgtgaaatga agctgtttga aaaagcagat atagtagaaa ctgcagtgtg 300
 tgatgtattg agagaaggaa aggttcgtac cagagacttg ggaggaacgg caacttgtac 360

agaataaaact ttggccatta tcgataaaat tcagcagcgc atttctttcc ctaataaaat 420
atgagtcaag acgacgaaca c 441

<210> 1328
<211> 435
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-024-Q1-E1-G7

<400> 1328

gtcatttata ccgaaaatcg agtggcacgc aacgcattgc ggtttttacc gtacttttgt 60
ggtgtttcag gggatacgca atttgctttg actcagttgt tgtcggattc cgagtttgtg 120
cagaatttta ttcgtgaaaa taccacagcgc ctgtatgaaa cgtatagcgt tcattgtagt 180
tgtttggaca aattgggtat ttcctatggt cctagtgaag caggtttctt tatttggatg 240
aatttgaacc catggatggc atctcatact tgggaaagcg aacgagagct ttggcgtcgg 300
ttgttggata aagccaaagt cgtccttaca ccaggtgaag tttgtcatag tacagagcct 360
ggatgggttc gttgttgttt ttccgcagcg tctcgggaag ctgccaaagt ggcttggaaa 420
cgagtggaac aatgc 435

<210> 1329
<211> 359
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-024-Q1-E1-G8

<400> 1329

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acaaacccaa aagggaagc ttaaaccat aaagaaaaga aatccaaaaa gaaggagaaa 120
agggttaagaa agaggaccga ttcagggtaa aaggtanagg agcaaganga gaagagagaa 180
tgctgggttg attaccgaaa caagagaagg gaattaaaag gtaagaaaga ggaaaggttt 240
acaagagaag gaagtacaaa gaagagagtg taaggcggcg tcataataga aatccgaaag 300
gagtanaaga aaagagagag aagaaagaaa agaagagaaa agccgtactg aagaccgac 359

<210> 1330
 <211> 424
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-024-Q1-E1-G9

<400> 1330

cccacgcgtc cgcccacgcg tccgttaaact actaacttgg ttgcttagta aatttgcattg 60
 ttatgaagaa gctattcaaa accccaggaa ggatgttctt ttcttaacca agacttttca 120
 aagtgagttt caccgaaagg ccatatggct tgcagaagac ttttgtggca ctgcagctat 180
 atctcgtgaa tttatccgat cagactttga aagatttgcg gttggagtag atatagattc 240
 tgtagctata gactggtgtc tcaaacaagg tttattgagt cttccgtctg gtagtgatag 300
 acttgagcta gtagtagcag actgtagaga gtatgaggat aaaagatcgt atgacgttat 360
 ttctgccaac aactatagct tattctttct cacaaccga gtggatctct tgagatattt 420
 gaag 424

<210> 1331
 <211> 424
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-024-Q1-E1-H11

<400> 1331

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 tgtgaacaag cgttttttaa aatgaacaat tgtttgatcg atgaccgaag aataagagtt 120
 gacttttcac aaagcgtggc caagttatgg aaccgagttc gtcgaggcta tcatgatcgt 180
 tttgatgaga aggaatctgt tcagagtcgt ggaaaacgaa cttataacga atatgtattt 240
 gatgatttgg aaaggaaagc tttatctcaa gaaaaacgtt ccccaaagca caaaaaaag 300
 tgaaatgagt gttttccttg acacaacaat atttattgca tattttaaatt tccagtttct 360
 tcggtatttc ccaagtaaac gtcggttcca ctttgggatc tcttccgaaa tgcctgtacg 420
 ctgc 424

<210> 1332

<211> 99
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-024-Q1-E1-H12

<400> 1332

gtccaaaaaa aaacaaaaaa gtaaaacaaa acgaataaat ataaaagaat aaaaaaatg 60
gaaaaacata aaatcacaga aataatgtca gaaatggtt 99

<210> 1333
<211> 333
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-024-Q1-E1-H6

<400> 1333

agcaaagatt tgctttccaa agaaaattcc tcggaatatt gaaatcatga taaaagtat 60
acgaactctg actgaaaaag tagacaaaca tagtatgccg agtaacacag gagaatggtg 120
gatagccaaa gagctttgaa aaccacaggtg tttgcacttg tagcaaaactg ctttaattcta 180
atgagagtcc ttttcaagag ataaggatga tgaattttgc actgtggctt taaacgaaca 240
cttacctcta tcttcttcgc ttttatcctg cagataagca aagggttttg cgagagaaat 300
tctccttttc tttgagacat gcggtaaatc tgc 333

<210> 1334
<211> 375
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-024-Q1-E1-H7

<400> 1334

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aatggtttaa cggcaacaaa atttcccccc aagaaaatgt caattagcat ttttgaaccc 120
tgaacctgcg aatcaggcct tgcctcgagt cgtcgaagtt cttggagata tccacaattg 180
gagtggcagc cgacgagaag aagagttgga acaggggaaga agattccttg catcattcct 240
tggaggaaga acagaacctt aagtgaacaa ggtcacatag cccagttgta cttttctagt 300

ctttattcct agatacccat tttcttagtg catacaaact atcaggtgta aactgtttct 360
gtttgctatc aaaaa 375

<210> 1335
<211> 222
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-025-Q1-E1-D10

<400> 1335

gtttgctatc tctaaattgt gtatgaggta tgttctcaac gcaatggtag ggcaaagacg 60
ctatgtgcac tttgtgaacg tgccaactac tatgcaaac atggttctgg gagagttatt 120
tgtcctgctt gtaatagatg gcaagtatgt gccttgtcac ctttgttatg cgactggaaa 180
tgccattgat ttgaaatacg gtttttgga ataatgcttg ga 222

<210> 1336
<211> 172
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-025-Q1-E1-H12

<400> 1336

tccgaatcaa cttcaacaca aacgcattgt cgtttggcac cttccttctc atgtgagtat 60
ggcaacgatt gaacagatct tctcaaggag gggggaaaca ctctttggcc acaagtgagg 120
ggtgtgacgac caatggactg tgggtgcgaca ctgatgggca ctgttctgtt cg 172

<210> 1337
<211> 460
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-026-Q1-E1-A1

<400> 1337

cacgcgtccg ccagcgcgtc cgcccacgcg tccgacaacc atcacatgcg cggaacaaaa 60
gcgccagaag agcacctcca caatcagctg aaccaagatg ttcttttaag agttgtgaga 120
tttgctttgc tttttccacc agaggagaca aggagaaatg ctagctgaag agcttttttt 180

ggctgcttcg acttttacct aactcggcga tgcagtggag tctcaggtat acccaacaag 240
gacgttgctt cacaaggacg gcgtcgagag agactcatcg tcaaagatag cagcaactga 300
aagtctattg tgacgcttca gctgtaaaaa agtgctattg acttgccaag tttgctggct 360
acttggaacta tcttgccgtt gttccagaga cggcacaaga ctacctttga aaatacgatt 420
attttgagca aggtgcgact ctagaacctt ttgtaacaat 460

<210> 1338
<211> 430
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-026-Q1 E1 A12
<400> 1338

cacgcgtccg ccaacgcgtc cgcaaccgga atgtggcaag ttggcaagca agtcagaaaa 60
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atgatggctc agattgacat tttgatggaa aagggaacac cggtttcgga aattgtcaac 180
gaatccgtca tagaatctgt agactctctc aatccatata tgcattgccag aggtgtttct 240
tatatggtgg ataattgttc tactactgca agacttggtg cgagaaagtg ggcacctcgc 300
tttgactata acattttctca gcaagcattt cctgttcttg acaatcaaga accgttggac 360
atgcgcaagt tggatgaatt cttaagtcac cctattcatt cggcggtatt ggagtgcgca 420
aagttacgtc 430

<210> 1339
<211> 419
<212> DNA
<213> Cyanidium caldarium
<223> unsure at all n locations
<223> Clone ID: LIB190-026-Q1-E1-A3
<400> 1339

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acaagagttg aaaaactatt ttggtanaaa gattgcagtg gatgcttcca tgaacatata 120
tcagtttctt tctgccgtaa gggctggagc agataattta agaaacgaag caggtgaagt 180
gaccagtcac ttgagcgggc ttttctatcg aacgaccgtt ttgatggaat tgggagtttt 240

accttggttaa gtatttgatg ggaaaccacc acaactaaag agtggagaat tgagtaagcg 300
 tatcgaggca agaagacagg cagaagcaag tgcagcattg gcgaaagagg aaggagacgt 360
 tgaatcatat gagaaattca acagacgagt gaataaagtg tcgcccaggg ttatcgagc 419

<210> 1340
 <211> 255
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-026-Q1-E1-A4
 <400> 1340

cttactacgt taggaggaga ttatgctcct tcttgtgttc agcaacaaga gttgaaaaac 60
 tatttttgga caaagattgc agtggatgct tccatgaaca tatagcagtt tctttctgcc 120
 gtaagggctg gagcaggtaa ttttaagacac taagcagggtg aagtgaccag tcacttgagc 180
 gggcttttct atcgaacgac ccgtttgctg gaattgggag ttttaccttg ttatgtcttt 240
 gatgggaaac cacca 255

<210> 1341
 <211> 424
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-026-Q1-E1-A5
 <400> 1341

gtcgatcaag aagagagatg gcgtcttcct caactgccta tttttcaagc aatggagggtg 60
 cagaaggagg ccttgagagt acaggaagca atattgttta tgtggtagta gctgcaggta 120
 cgaatatact tgcccagtac gccgccgaaa aggggaatta tgaagctatt gcgtcacgta 180
 tattagccaa agttccacaa cacgacgtga agagctttta tgaaaacgat aaccttagtt 240
 tcaactttat ggtatctaata ggaataacct atttatgtat cgcaagacga ctttaccctc 300
 gacgactcat atttgggttt ctagatgata tcaaaaagcg ctttgtttcg caatatgggtg 360
 aaagcgcaaa gacagcagggt ccccttcata tgcagcacga gtttcgtcct attttaaagc 420
 agca 424

<210> 1342
 <211> 308
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-026-Q1-E1-A6

<400> 1342

ttttgattgt ttatcgtttg tcaaagtttg gttgttttct tggtagcagt tgtacattca 60
 acatcatcaa atgccaaagg gaggaagaa agattcttca aagaaagaag ccacaagtaa 120
 acctgcagca gcagatgcta caaagacgac agaaaagtct ggtccggaag ccaagttgaa 180
 gggaactggt gcaaagaaac aataaaaagt tgactatgca tgtgcagtcc tgttatgttt 240
 tgtgagttct gtttgatagt ttccagctat tcttttgga gtgaataaag agaaaatttt 300
 ttatatatt 308

<210> 1343
 <211> 432
 <212> DNA
 <213> Cyanidium caldarium

<223> unsure at all n locations
 <223> Clone ID: LIB190-026-Q1-E1-A8

<400> 1343

acgcaaccgc agggatcatt ccaagttggt aaagatagac ttgtctcaag gcagctttaa 60
 agtactccaa gactgtgaca aagatttaga atgtgatcat aataccaagt ttcagttgga 120
 acttattcag tatggtctct tttcacctgg tttttggacg agagaaaatg ttctgctctt 180
 ctatttggag ctctgtgcag gtgtattcat aaggacact ctctaccttt tctacaacaa 240
 aggtgaagaa cttttgtttg cgagtttaat gctgttggtg gagacacaag tctcactgta 300
 tgcagacata aaaacaaact gggagaaacg acactttatc gttggcctca tcgtcaggtc 360
 tttgtgtgag gaatatcaac gacagtattc agagctatgt tcaccgaatg aaagcacgan 420
 agatatgcta ct 432

<210> 1344
 <211> 419
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-026-Q1-E1-B1

<400> 1344

attcctaccc aagtgtttcc ttggtattgc ttcggtggg caacctgcag gaaggattgt 60
attcgagttg ttctccgatg tcgttcctaa aaccgcggga aatttccggt gcctgtgtac 120
ggatgaaaagg gtttgggaca aagacccaag tttataggat aattcccagt tcatgtgcca 180
agggtggagac ttttcacccg gcaatggaac ccgtggcaag agtattttacg gcaccaagtt 240
tgaggatgaa aacttcaagt tgaagcattc cgagcccttt ttattgtcca aggccaatgc 300
tggaaccgaat accaacggga gtcagttttt cattactgta gttaaaacac cttgggttga 360
tggaagcat gtggtgtttg ggaaggtttg ttaaggtacg gataatctta aagctatgg 419

<210> 1345

<211> 434

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-026-Q1-E1-B11

<400> 1345

aatactctat aatgacgtcg tactatcggt tgttttgtct tttcaaagct agaagactat 60
ttattttctg ctatgtttta gaggtccaa agattttttg tgctcatctt attccatgct 120
tcgtggtggg tgaatggctc ctttgacaac aggggtgtca cgaccccgcc aatctccaca 180
acttcaactg ccaactgtg cgcgtatatg tagatatatt tgtacagatt cgtggtgtag 240
aaagaagagt gcaaattggt gaaaagtaac agcagagggt tagtatacct ttagagaaag 300
cacttgaaaa agtgttcacg tacttttaca tatctacctg taataactgt ttttgcttgt 360
agagattaca agtttactgt acttgacaag gtttccaagt ttcattcatt gcctttaagt 420
atgtatgatt gtac 434

<210> 1346

<211> 428

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-026-Q1-E1-B2

<400> 1346

gtccgagcga ttatttacac agactcagag cggaccacaa ccagatgcac caaccaatga 60
tacttctgaa actatatata tttcgtcact agcgttggtta aagatgctca agcacggcag 120
agcaggagtg cctatggaag ttatgggact catgttggtg gactttgtgg acgactatac 180
tgtaaagggtg gtagatgtgt ttgccatgcc tcaaagtgtg acaggggtca gtgtggaagc 240
agtagacca gttttccaaa caaaaatgtt ggatatgttg aaacaaactg gtcgacctga 300
aatgggtggtt ggctgggtacc actctcatcc cggttttggt tggtggcttt caggagtaga 360
tattaatata caacagagtt ttgaagcact gaatagtcgt gcagttgctg ttgttggtga 420
ccccattc 428

<210> 1347
<211> 276
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-026-Q1-E1-B4
<400> 1347

tctatagtgt tacatattac gaacacagct tttggtgaag tgtgtgaaac tttttgttag 60
caaattcaaa taatcacctc tttggtttgc aagtgggtgt gttagcggta cttgtttggt 120
tgaaaagaac aactgctttg tttcttggtg aaacaagttt cttgtgaaaa aaaaaaaaaa 180
aaaaaaaaagga aaaaaaaga aaaaaaacg aaaggataac aaaaggattt acacataaat 240
acaacgtaaa agcaacataa aaactgtcac aaaaat 276

<210> 1348
<211> 452
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-026-Q1-E1-B6
<400> 1348

ccacgcaacc gcaaacgcgt ccggattttt cttgtggagt actgggggtg gttggaagct 60
atctttgagt gatcattatg agcaagaaga taggtaaggg aggaatagag agtgcacata 120
tctaggtaaa ggatactgtc tacagtcatt gaacaagcta gaattagtaa cagtggaaag 180
ccagaagagt agcaacagca gtcattctat gtcttttctt aaaggcacct ctgcaatctt 240

gttttcccta gggcaacttg gcagttggag acaaggcgag aatcttctgc agagatagca 300
 gtgcaacttg tatagcaaga gtgacttggt cgccaataat aatactgagc ggcggtgaca 360
 ctactgtcat tgtgagtcac tcagttgcaa aaaccacgtg acaaggtgat tctttgaaac 420
 gaataaaagg ttcaagttac ctgttcttta ca 452

<210> 1349
 <211> 448
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-026-Q1-E1-B8
 <400> 1349

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 caacgtgcāa agtgcagtcc aaatttccaa tcagatgcac agcgaaggaa tcgtccctcg 120
 tgctataact tatagcgtgt tgatcgattc tctaggaaaa tgtaagatgt tggatgaggc 180
 gtttgctttc ttcgaggaaa tgcaagtcaa aggtatttca cccaatggga tcaacttttaa 240
 tgttttgtta tcggcttggt ctgcttgcaa cgattatacg agagcattga tgatcgtaga 300
 gtggatggaa caacgaggaa tggactttga ccgatacaca tttaatgctt tgatacaatc 360
 tgcagtgaac agttaaatt atgaagaggc tttgagatgg tatgaaaaga tgattcattc 420
 cctcgtcgtt tcaagtaatg tgactttt 448

<210> 1350
 <211> 313
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-026-Q1-E1-B9
 <400> 1350

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 cgaaaattct tgaatatcag caactgggtg ctatctactg ataaggggat acttgaacat 120
 gttctcttgc atcacttctg gccccctgag gtacctggag aagcttctac agacatagaa 180
 tctgcttggg tttctgaata tatagtacaa agtaaatttc gcgaccttct acagctcaaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaaaaca aaaaaaaaaa aaactaaaac aaaacaaact 300

gtataataac ttt

313

<210> 1351
<211> 442
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-026-Q1-E1-C1

<400> 1351

gtccgcaaac gcgaccgccc acgcgtccgg ggacccttgt cctgaagaaa cgcaatggct 60
cattgaagag cgtcaaaaag gggagagAAC caatttcttt tcctagacaa ccacaaaaag 120
gttttggtca gaactgtata ttTgaaagta aaatattacg attgtaaact acaagggaaa 180
gatgacattc agagtaatgc tagaatgagt gagaagatat gtatcagcat ggagaatctc 240
tttgtggcaa tagtgctcat catatatata tatatatata tatatatata tatatataca 300
gagagagaga aagtatagaa atcattctac ataccgtgtt tTcatatttt tacatgctct 360
tgatcttttc tacatattct tccgcaatat ttTgaagttg tcgatttttt gacaccgcgg 420
gcaacaagac ttgcaacata aa 442

<210> 1352
<211> 57
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-026-Q1-E1-C10

<400> 1352

caattctcta tactgacgtc agtattataa aaaccaacca acccttgctt ggatgtt 57

<210> 1353
<211> 239
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-026-Q1-E1-C11

<400> 1353

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agtttggtaa caatacctga agagtggccg ttgttgaggt ggaacgcgga aaatattccc 120

cgactgagta gttgagactg gcagcaaagg aacgtgtagt acttgggtag aacacaaggt 180
 ttcggttaag caacttttgt tctagttgaa atacaaatgt atgtatccac aactcatta 239

<210> 1354
 <211> 422
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-026-Q1-E1-C12
 <400> 1354

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 agaattgctg tttattcatg gacgtaaagg ttcctttgct ttttcttcct agtgatttgt 120
 tttttgacgc gatggctcca tgtctaggag ccataggagg actttatgaa catagtggtt 180
 acaatttttt cccctttttc gaagctctgt caactgtacg tgtgaatagg attgaacggt 240
 ttgttgtttt tgttgcttac atatgtatca ggttgacat actatgcaat catgtgcgtt 300
 ataattgtag ctatagtgat ggcgtacgtc caacgaattt aatggataat gcattgcaaa 360
 cgacctatta caattatggc tacaagtaat ttgaataatt tcatttgaca gatacataat 420
 tg 422

<210> 1355
 <211> 446
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-026-Q1-E1-C2
 <400> 1355

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 tgggtgttcaa ggtacctttg tttgtggtgc atttggcatg gttgttgctg ctactggcgc 120
 atcggagaag aagttacaga aaagaggctg gaaacaagga cgtgaatatg aagccgcagt 180
 tatccacgct ggatcacatg ctggttatta cccaattca aaaacggtac atctaaagtt 240
 gctctttgac ttgaagactg gaaagatttt gggagcacia gctgttgggtg aagatgggtg 300
 ggacaagcgc attgattgta ttgctatggc attacaagct ggtatgactg tgctggactt 360
 ggaggaagca gagctttgtt atgtcctca atttggttcg gcaaaggacc ctgtcaatct 420

tgccggtatg gtccctgcaa aatatt

446

<210> 1356
<211> 281
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-026-Q1-E1-C4

<400> 1356

tccgagaggg gagacaagac cgatagatga tgatgatgcg ccgagtagag acgtgacttg 60
gttggttcag atcgtttgga acaatagaat cttgtagaat ttttggcttt tttggtggtt 120
tatgtgctgt tttgtgacta aagtgtctgt actgaatata tgctgttgac atgaagtttg 180
ggaaaaagtt acaagacgca ttggaacctg caaacatcga ttggaagccg tactttatac 240
actacaaggg ttttaacaagg ttaattgcta cgagtgtggt g 281

<210> 1357
<211> 430
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-026-Q1-E1-C5

<400> 1357

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cacagtttca gcaggtacaa ccagagaagt ttgtagcttc atttccagca aagttacttg 120
gttctccttt tttcttcttc cttttaccag gagcttcact tcctgcaaata actgtcgcat 180
cgttgtacta tagtcttccg ccttatgaaa actggtcttt tattggtctg gtaggaaacg 240
attgtcccag taaactgtgc actgtaaagt taccagctca gtcggcatca gaagaagtta 300
tggttgagtt gggatatttc attgaaagta tgtcagaagc ggctttggct gttccaacca 360
gtccaacat agtttttagat cagtcagatt ctacagcttc tgttcgaggt atcgctactg 420
acttttttcg 430

<210> 1358
<211> 439
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-026-Q1-E1-C8

<400> 1358

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atgtcacctg tttagcggtg aaagataaag gtccactcgt ggcaacttgt tcggaagaca 120
agtcgtagc gttgtgggac cttcgagtca cggccccgct gcagagcttg aagtgtcttc 180
accccctgag ttgtgtatct tatggaagag atgactcaga aatcataaca tcagactata 240
gtggttcggc aaggatatgg aatattgaaa caaatcgaca aattggctgt ttacagactc 300
gcgactcttc tattctcaca ggttttcttc acgatacagc ccgctcacta tttattatgt 360
ttggaagctc tggatacgta aacatcagtc cactaaactc caaacgggga acaggagagc 420
gttaacttcg acttaaata 439

<210> 1359

<211> 394

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-026-Q1-E1-D1

<400> 1359

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taatggaggt gatagttttt gtgccctgat gcagttggag acattctggg tattttcctg 120
aggcgatatt tctttcctcg tttgcttgaa gaactacaac atttcaaggc aagatagatt 180
tgtggaatag tgaagtgttg ggcaagaaaa ggaagtatta gtcttcccga aatggacctc 240
aactgcctaa gacatatgat tacttgccct gcattgtaat gctttacatc gaggttgctg 300
anaagaaata tacacttact ttcacaattg ctcatanagg gtttcaacat gagcagtttc 360
ttgtggtctg tccagttgag tactgtatgg catg 394

<210> 1360

<211> 294

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-026-Q1-E1-D12

<400> 1360

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atggcacggg aaagacgcta tgtgcacttt gtgaagggtgc caactactat gcaaaagatg 120
gttctggcag agttatttgt cctgcttgta atgatgcaa atatgtgcc tgtcactttt 180
gttatgcgac tggaaaggcc attgagttga aagacggttg gtgggaagaa ggcttggagc 240
agcaagtaag gaaaaataa ctgggataga aaataaaact tggcattttc aacg 294

<210> 1361

<211> 433

<212> DNA

<213> *Cyanidium caldarium*

<223> unsure at all n locations

<223> Clone ID: LIB190-026-Q1-E1-D2

<400> 1361

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acgagtcag ctctgccccaa tatgaagttc aaaagatcaa acagcaacaa tgtactatga 120
cagtctctga acaatacata cagccggata cttgctacaa gtatgttcct gaacaacaat 180
tggtgcctca gacttggttac aagtattatt ctgtacccaa gtttattgaa aagtgtctatc 240
ctcagtatgc aacaacggag aaatgtgtan agtatgagta tgttccatat gccacttcta 300
caccttatcc atcggtatct ccaagttata ctcttcagc atatcaaaca acttctgctt 360
attaaagagc cgaagactgg atagattttt gaagtgtctc gtgttcaaag aaaacatgag 420
acatgaagaa aac 433

<210> 1362

<211> 460

<212> DNA

<213> *Cyanidium caldarium*

<223> Clone ID: LIB190-026-Q1-E1-D4

<400> 1362

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ttacttttcg atattcgaca ctctgttcta actttcgtcc aaataaagag tcaagtgcga 120
acgctcaagt tatgaaacag ctcatcggaa acctgagaga aaaagtggaa gaaatagcca 180

aaggaggtgg agaaaaggct ataaggagac acgaagaaag aggaaagttg tttgtacgcg 240
 atcgcattca aaaactgttg gatcctactt ctcccttttt ggaactttct ccattggcag 300
 cttatcaagt atatgatagt ccagttcctg ctgctggatt ggtaactgga attggctctgg 360
 tacatggcaa gaaagtaatg gttatagcca acgatgcaac taacaaagggt ggaacttttt 420
 ttccgttaac ggtgaagaaa tatttgagag cacaaagtat 460

<210> 1363
 <211> 455
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-026-Q1-E1-D5
 <400> 1363

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 tcgatgactt gtgggtttgt ttgtggagct ctacattctt ggagttttgc agtgcacaat 120
 agacaaagaa aagtttccgt atgtaaaagt caaactacga cgttcctatc tggatcaaag 180
 caggtccacc tgcgagcgaa tattttccag aagacaagta ctccaaaagg ggaagagga 240
 agcttggtga tgattatttc caacggatca aggttccttg aggatgttac ttttacaacc 300
 ttgcaagatg gtcaagtaaa ggaaatgaaa gcttcagaaa ttttcaacgg gaagaaagta 360
 gttatatttg gtgttcagg agcctttact ccttcttggt ccgacaagca tctcccgggg 420
 tttgcagaaa atctcgagaa gttcacggaa aacgg 455

<210> 1364
 <211> 454
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-026-Q1-E1-D7
 <400> 1364

acaagcatct acaaacacgt tctggaaaaa cgatgcctgg gattattgaa gcgatatgtg 60
 gaggacttgc cattggcttt tccgtcgcgg caaatgctgt tttgctcgga agagtaactg 120
 gtattagtgg catcgttggt ggtatccttg cgaaacagtc aggttttgga tggagactat 180
 cttttcttgg aggacttgca ggaggtggtt ggggtattaag gaagtttttg ccgagtacgg 240

<210> 1367
 <211> 190
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-026-Q1-E1-E2

 <400> 1367

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 ggataaaaaa aaaaaattgg aaaaaataaa aaaaaaaaaa atggggggagg gggattagaa 120
 gtgtggagta ctgttttggg aggtggggta ttgtaaaaaa gtgggggttta ttcaattgga 180
 gaggatgttt 190

<210> 1368
 <211> 317
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-026-Q1-E1-E4

 <400> 1368

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 aaaaagcgta ttgaacatat gggaagcagt tttaaatgg atgaactggt gaatggcaaa 120
 aacacaaaaa cagtattaaa agagaaactt aaggtgcaaa cagatctgac ggaaaatagt 180
 cagaaaaata agtcttcaag ctcaagagct tcttggaag agtctttgcg gagtgcgaat 240
 agaagagaca actggaatgt tcgacttcgt agtttggaag cgcagcttta tgcacttttt 300
 gtatttgttt tgtaaat 317

<210> 1369
 <211> 451
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-026-Q1-E1-E5

 <400> 1369

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 gacaaaaactt caagatgggtg ttagtgcttc tctttggact gttcgtctct tcctctacac 120
 agttatttta gcattctctg ccactatcat tggcttggat ggacgtaaag cagacaacat 180

atggaacgac agcttattct atgatgggaa gtacattaac ttttgtgctt attctgcctc 240
 ttctgttgta gaaggagggg accatggagc gtgtaaatat gtcatggcgt tggcgtctat 300
 aagtttgatt ctagtctttt tcttgtggct ttttacattt gtagatgcgt tgtatcctat 360
 tcttaccaag ttttggttta ttgaattggg tatcaacgtg tttcaaaca tgtgggtggt 420
 ggttgagca attgttgat ctgcaaaaag g 451

<210> 1370
 <211> 464
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-026-Q1-E1-E6
 <400> 1370

ccacgcatcc ggagattgca aataggccaa agtgtgtgtg tgcgtgtac gagggttggt 60
 catttggtga gctgaagagt caatgaacaa gcttcagttg ctatacgtaa ccaaacaagc 120
 tgtttcaaaa gcatggcaaa gagaacagaa aaggttatac tccgagaaga aatcagttgc 180
 agaaggaact ttgggaagca ggtggaagga aagagaaact gcacaagaga gcgcgtactt 240
 taatcgtgaa gatgagcagg cagtacaaag gttagcagcg aaacttcggc agcaaattga 300
 gccatcggag gaagtactcg cccaacaaag aaaaggcgtg gcagaaatct tacaaaagca 360
 cggtgtccag cctaataaaa gtttgattga agatattgtc cgtttctttc attaattcct 420
 ccgtgtttga tgtttactgc ggttcaacta gagttttgtt tggg 464

<210> 1371
 <211> 454
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-026-Q1-E1-E8
 <400> 1371

acaagcatct acagtgactc gtggtathtt gagatcacac aaacacttgt acactgaatg 60
 aacgacgtat gggactaac tgtgcatttt gtatagatat caaggatgtc aaatatgtta 120
 tcaactacga tttcccgaat actatagaag actatgttca tcgcattggt cgcactggtc 180
 gtgctgggtgc ccttggaag tcccatcagt ttttactcc ggataaatc cgtgttgcca 240

aagaattagt taacttggtg cgagatgctg gacaggacat tcctcccgag ttggctcggt 300
 tgataaaaac ttcgctcttt ggcggtaca acagaaactt ttctcggtat cgaagttaca 360
 attctcgggg cggtcattt tcaaataatg gacgttatgg ctacgggaat catagcaata 420
 atttcggaag gagccgatag ctcttaataa aaat 454

<210> 1372
 <211> 430
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-026-Q1-E1-F1

<400> 1372

tccggaaaaa ttataggaac gataggatgt ggagttgcat gttttcgga tggcgacttt 60
 acgagttggt gctttcatca accgtcaggt acgacattga atggagatat attgtatata 120
 gcagataccg aaaatggatg tttgcgaatg gtggatatag aaagcgggtca agttgagacg 180
 atctttcctg aatcttgctg agttgactgt aataataata acatgactcg agcactagaa 240
 ttttccgata tttggagaac tccttgaaa cgtccaaaaa aagggatcct attgtatccg 300
 ccaactttgg acgaccctt tctgttggtg tcaaggataa aagtatttct gtcttggtta 360
 tagctgatga cgatatggtt ccaaaaaaga gtttgcacag taaaaaactt agcagcctaa 420
 aacctactat 430

<210> 1373
 <211> 402
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-026-Q1-E1-F11

<400> 1373

acgcgtccga atctttgttg agttgtcgtc gtcgacgtat tcagaaagaa ccaaataaggc 60
 acacgactta caagaggact atcgatcttt ctgccacctc aaaccatgaa actagtact 120
 cacaaattcc ccgagtaccg aacgttgcat cgagtggaaa aacttgaaa ccgcagtgg 180
 tgaggacagt tgctcctgaa agcgttcata ctggttatgg agaactaaaa gatactgtaa 240
 aaaagcttgg tttgcataca gttgtgaag aagcgcaatg tccgaacatt ggtgagtgt 300

ggaatggtgg cacagctacc gttatgttgt taggggatac atgcactcgt ggttgctcgtt 360
 tttgtgctgt gaaaaccaac aacaaacctc ctctcccgga tc 402

<210> 1374
 <211> 382
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-026-Q1-E1-F12
 <400> 1374

tacaagactc tagactgagt catattatga ggcgagaaag cataggaagt gatgaaatgc 60
 agagatctct agagaaaggc aagaaagaaa agaaaggaag acacagtaaa tgaggcgaga 120
 aagcatagga agtgaaacgg attacgaacc cgtgtagtct atgcagtaaa agaaagaatg 180
 agtaagaaaa aaggggagtca ttccaccagg ggagtaaagg cgcaagaaaag aaacccaaaag 240
 caattgacgg gaatcggaaa aaggggtgga tcacgtaaata taatccgata aaccgagaaac 300
 cttacctctc caagaagggtg ttgcacggct gtcgaaagaa cgtgctgtga agtgagagaa 360
 cgtacgagaa agccaagtta gg 382

<210> 1375
 <211> 461
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-026-Q1-E1-F2
 <400> 1375

cgtccgcaga cgcattggcg gacgcgtggg cgtgtgtagc aagcgtagag cagaagaact 60
 ggggtgtaaag gtcgagtagt agagtaagtg taaaagggaagg agaaaggag agaaagagga 120
 aagggatgaa atgcagagat ctctagagaa aggcaagaaa gaaaagaaaag gaagacacag 180
 taaatgagggc gagaaagcat aggaagtgaac acggattagg aaccctgtga gtctatgcag 240
 taaaagaaaag aatgagtaag aaaaaaggga gtcattccac caggggagta aaggcgcaag 300
 aaagaaaccc aaagcaattg acgggaatcg gaaaaagggt tggatcacgt aaattaatcc 360
 gataaaccca gaaccttacc tctcaaagaa ggtgttgac ggctgtcgaa agaactgtct 420
 gtgaagtgaag agaactgacg agaaagccaa gtgaggaaaa g 461

<210> 1376
 <211> 451
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-026-Q1-E1-F4

<400> 1376

gtccgtaggt acaggttaca ataatgaagt atccaatcat tttgtagata agcagaactg 60
 ggtaatcgat accagaaaaa aggtttcttc ttcgtcatct actccttcgc atgatatgaa 120
 ttactccaac tccgatcaag agggctctcg tatcggccgg aactgccaac ttgtagtttg 180
 ctcgatagaa aacttggaag agttcttggg taaagaaatt tatgaccaa tccagaaagc 240
 tcgctgctcg gagagggaaa actttttgac caatgtgact cctctatcca gtctgatagg 300
 aacgttggtc gaacatggat gggcacgcgg tagatctgcg gaacctgaag cgtatctcga 360
 aaagtctatt gagaagaata ttggtgcgaa tagagtagat tcgactggca aatcttcttc 420
 ttctgttgtc cagtgcgaca aggccagttt g 451

<210> 1377
 <211> 231
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-026-Q1-E1-F5

<400> 1377

tacaagcatc tacagacact cgtgctaacg cgtgggtatg cactcgctcg gaacggttat 60
 ttgttttgtg tgttggttaga tactttgatg taaaatagtt gacaaggggt tattgcaaaa 120
 aggttgaata gtaactcggt ctatatgggt cggttgagtat tgtctagaga caagtgggac 180
 aattagtatc cacctttatc ttcgcatata cataaatata tttatttatt t 231

<210> 1378
 <211> 459
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-026-Q1-E1-F6

<400> 1378

cccacgcac cgcagacgcg tgggaggacg cgtgggatct ttcgctcgtc ttctcgggtgg 60
 gcgacattct ttggtggctt gtttttgatt ctcttgctca tttatgggtc catgtcatcg 120
 tatatggcta ttggtgacta tgggttggtat tatggcgact tttcttcga gccaaagaca 180
 gattctcccg tgtataccgg tatttatcga tttatgaata atccagattg tatattggga 240
 catttatgga tgtatggaat ggcttggtat ggacgcaatt gggagacatt ttgggttgcc 300
 ttgttatctc aagccttcaa tgtattatct ttacatgtgg tggagtcacc tcatatcagt 360
 cgttggtatt cgaaacgaag acaagcggca gcattggaac tctcttttcg tagaggagca 420
 gccaaagtag tgtctgctcc tctcgtgcaa catttgacc 459

<210> 1379
 <211> 403
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-026-Q1-E1-F8
 <400> 1379

tccaagcggg ccgcaaaaaa gtttgtgttt atcgtccgaa aatgtggata tgacgaggca 60
 aaattttcag agtttaaggt tcaaacgtg gttggtacta gtgcttgaa ctttcctata 120
 cgtttggaag cacttgctca agcacatata aagttttgta catatgaacc agaattgttt 180
 ccaggcctgg tctatcgtat gatggaaccc aagattgtct tattaatttt cgtttctgga 240
 aagttggtac taactggtgg gaaaacaaga aaacaaatag atgaagctct agagaaaatc 300
 aaagacgttc tcgttgcttt taaaaagaag taaatacaga gacagtctcc attgtttact 360
 ttgcaactta aatataaagg gcgcgcattt tttcaaataa aaa 403

<210> 1380
 <211> 321
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-026-Q1-E1-G1
 <400> 1380

ccgaaagatc aagcttccaa gatgatagaa agagaagttg ttgtggataa ggacgaaggc 60
 gttcgttttag gagttaccat gtcttcattg gcaaagttaa aaccagtctt cagaaaggaa 120

ggcgccacca cagcaggaaa tgcctcgcaa ataagtgatg gagcagctgc tgtcttgcta 180
atgaaacgtt cggaagcaca gaaaagagga cttggctgtc tgggtactct tcgagctttt 240
gctggcgtgg gagtggaacc aggtgtcatg ggaattggtc ctgctgttgg caatccccga 300
ttattgaaaa agccaagatt g 321

<210> 1381
<211> 414
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-026-Q1-E1-G10
<400> 1381

acaagcctct acacagactt ctgggataga ccatggatag aggagtggct tttatttcta 60
tactttctaa agggcttctt tatagaaaat tttggaaaag aatttatcat gctcatagtc 120
ataaaacttg tttctactat tgtgtattat ccaacctttc catggttgct tccaagaaca 180
attcggcagg ttcccgtag aaaaagagca aaaggcgttg gaaacaaaga gagttggcga 240
gtggcgaaga tacgaagaaa accagatttt cagtacagtg ggccaatatt catttgtcac 300
ctgaggaaat aggtaaaaaa tatgtgatca cgcagacagg agacttggaa gatggggagg 360
atttacgaca gtctcaagag tggaaggact ttatttccac cttggacttt aaac 414

<210> 1382
<211> 432
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-026-Q1-E1-G11
<400> 1382

acgcgtccgg acagagacat gaaaaagaaa tgagtggagt agtacaagga gcgaagatga 60
tgaggcagg aatggcaacg ataggtttag caggagtagg agcaggagtg ggaatagtat 120
ttggaagttt ggtgaatgca tatgcaagga acccagtatt gaagcagcag ttatttggat 180
acacgatatt agggtttgcg ttaacagagg cagtaggact gtttgcattg atgatgagtt 240
ttttgatact gttttcatag tataggagaa acaagaagta gaagagaaat aaaagagaca 300
gaagaggagt tatgagagaa aagatggaag taatagaagt ggtaagtga gtaataatga 360

atcatatgaa agaaggaatg gagaatataa ggaaggatta catgaaggag gagataataa 420
gagaaatgat aa 432

<210> 1383
<211> 442
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-026-Q1-E1-G12

<400> 1383

ccacgcgtcc ggagaatatg aggaggagtg gctgtctctt tgctctcca aagggacttt 60
attggaagag agtcttctct acagaatatg attatacagg aggaactgga agagaatcca 120
caggattgtc ggcttccgaa caagaagcaa gagagaaagt aatacgtttg tatcgatatg 180
cgctaagtag tgtcaaagat attcgcaaac actatcgttt aaatgaaagc anagaagata 240
tagctgcttg tattcgagat ttatttgaaa ggcatagaca tggtcaagat cganagctta 300
ttgatatgtt ggtgttcaag ggacgacagg acatagacga agttcgcgcc cagtggaaaag 360
gtcgtcatca ggttctcaac ctattaagag catttgaaga aaagaaaatt aaagaaagag 420
cgcagcttgt tgatgaacaa ca 442

<210> 1384
<211> 368
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-026-Q1-E1-G2

<400> 1384

gggttggtgt tttttttttt tttttttttt tttggtttgt ggtgtttttt ttgttgtttt 60
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt ttttttgttt 120
ttttgttttg tttttttttt tttttttttt tttgtttttt tttgtttttt tttttttttt 180
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ttttgttttg tgtttttttt tgttttgttt tgttttttgt gttttttttt tttgtttttt 360

tttttttt

368

<210> 1385
<211> 291
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-026-Q1-E1-G4

<400> 1385

ctctatagag acacttaata ggagctcaaa agacagcagt ctttgggtcg gcaaggagtt 60
ggtcacgatg catgctttga cggtaacttg ctttattact gagaaataaa aactgactat 120
cctttcatag gggtcacgag cgggctcgaa agttgctgaa ggaatcctcg atgttcagtt 180
ttatacccaa ccagcaccag aagcttcatg gaagggttctg taagaaaact agttcgagat 240
agctatagga tggaagcttt aataaaaagc cagaatctga ttcaatattt t 291

<210> 1386
<211> 447
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-026-Q1-E1-G5

<400> 1386

cccacgcac cggagccatt caggaacgat atgagcagga gtttaagaaga tgggaggaag 60
tgataagaag aaaggaatga ggattcaagt agagcaatag aaggaaggaa aagaaggaag 120
aaagagaaat aaaggatggt agagaaaaga ccaagagtaa gaaaaggagg ttcaacaggc 180
atagcaccaa tccaggtaag aaggaagaag gaagcaagga aaaggaagta aaagaatcgg 240
aagagaggtc taaagagaga actacgagaa gagaagctgt gtatccaagg aagaagagca 300
agtacagcaa tagaggaaat catgacaagg acaccagcga gtataaagga ataatgatct 360
taatagggat aggagtatca gtggtaatag gaggaagaag atggctaaaa gaaggagtaa 420
aagaatggat aaagagtaag gaaaaga 447

<210> 1387
<211> 436
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-026-Q1-E1-G6

<400> 1387

atggaagcta ctcgacagtt ggtagaaaaa ctaaagagag ctattatttt acaagaagat 60
acaagctatt cggattcagg agatcaacaa cagtttgcca agtctgctag tatagatagc 120
aatagtcatg aacatcgaag ttggaatagt gatggatcat ttaccgaagc aatggaagcc 180
aaatatagca gaatagcggg gtttacggaa tattatccac tcaaacacga agactttgat 240
gtcaattcta aaacttacaa gatTTTTcat attcacgagt acaattggtc ggatcacgga 300
tatgctttga tcaatgcgtt ttatgaagat ggagaattgg cttctttatt ggataagcag 360
tttgacatta ttaccactt gacagataac agtataggaa tgaatgctaa tgtagatact 420
tctatctttc gtagag 436

<210> 1388

<211> 440

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-026-Q1-E1-G7

<400> 1388

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attcttattt caaaaacgaa atatgaacat acagcaaacc attccctgtg tctccatcat 120
agtggatacg tgttgccca gtatgctacg tcttgtcgg tctcgtgca cttgcgacat 180
tgcacgctct gtggactgtc caatttcaat tcgttggtcg ttaatagggtg atctctgttt 240
gtacgctttc aaatgcatag ctgaaagatt ggccaaacgg aaaacaaagt cttccagttg 300
gttggcgcca gttgcccag agttgcgtga atgttttcaa tctcgacaac tacctaacca 360
aacacaactg gaacagtatc cttgtcaaca ttcttctata ttgtggaaac tggccantan 420
attatgaccc catgtttact 440

<210> 1389

<211> 456

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-026-Q1-E1-G8

<400> 1389

cggggccacc cacgagtccg aatggatact tttttaatat ttgactccac cagtcaacga 60
ttcgggtgctg ctgctgaaca cgtttatgac gtaaacgaga ataccaagtt gcgttttggt 120
gggaaagtgc gtcacggaga atcggacccg gcaggatatg tcattgccga atatgacttt 180
acggttttcca aagaagattt tccgataaac gttcgtgcac gtgcgatatg taaaagtaac 240
cagtgcacgc gcgatattcg tgccaaaaag aagtttgaag tggacgaaga cacttcttta 300
ttcttcttag ccaaagcttg tactcaggaa ctaacaaaag gaagttatat tattggtaaa 360
gctggagtga cacgtgactt tcgtttgggt gaagacactt ttcggttggg tgcgggtgtg 420
gaccaagatg gaaactgtcg aggtgcttta agaaat 456

<210> 1390

<211> 429

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-026-Q1-E1-G9

<400> 1390

cacgcgtccg gaagcatttc tgtaacattt ttcttttctt ccaaaaacaa gcgggacggc 60
ttcctatggg gcatttgaat ggcattgtat atatgaaaca gaaacaagcc gggcctaaaag 120
gtgaagagtt ggaacgcata caactctttc gcatgagcac ctggcaaaga acaaatgggtg 180
tccatttagc aaagtattga cttgacctta ctttgccagt caacaccaa caagcgttgc 240
ttctagaaga gcccgccaat ttttgaattt aaaatgaggg tccacatgag aaatgccaac 300
ctccccttgg ccattgtgat tgttcgtatt gttggtggag gtgatagtga ttactccaaa 360
gtgtgggttag atgataactc ctagaaaaag aaagcaatct gaacgtgaag aaacacatgt 420
tgacaacgc 429

<210> 1391

<211> 408

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-026-Q1-E1-H1

<400> 1391

gtccgcaaac gcaaccgcaa cccgaatgtg gcaagttggc aagcaagtca gaaaaacaag 60
agaggaatcc agtattccca tcgttccttt ttctgcaggt gtatacattg cagctatgat 120
ggctcagatt gacattttga tggaaaaggg acatccggtt tcggaaattg tcaacgaatc 180
cgctcatagaa tctgtagact ctctcaatcc atatatgcat gccagagggtg tttcttatat 240
ggtaggataat tggttacta ctgcaagact tggtagcaga aagtgggac ctcgctttga 300
ctataacatt tctcagcaag catttcctgt tcttgacaat caagaaccgt tggacatgcg 360
caagttggat gaattcttaa gtcacccat tcattcggcg gtattgga 408

<210> 1392

<211> 441

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-026-Q1-E1-H10

<400> 1392

cacgcgtccg cagacgcgtg gggttgaatg aaagcaacca cagctttcct atgttgtctc 60
cagaagagtc actagttgaa ccaagtgata tccactacag gaacagagcc tttgacagca 120
cttcagaagt gtgtgattta cctccagctg tgagagcaac tgtggagctt ttggatattt 180
taatgcatcc aatttttgat gatttatttg aagggtgttt acaagaggca ctgattaaag 240
gagaagagtt gttcgaaaag tgttacgata aggaggaaga aggaattatc acaccttaca 300
ctatttgttc acagtcgctg atagtttttc cccgacttgg ctattcgcgt ctcaaatgta 360
ttgaagttgt ttggaaactt gtttgttttc gttttgaatg tataaataat ttgttgtcct 420
aacaaggcat cttatcgca t 441

<210> 1393

<211> 406

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-026-Q1-E1-H11

<400> 1393

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aagcttgctc ctcggaagag aggaaaccac gaaagaaacg tgctcctcca ggagaatttg 120
ataggcaagt agaggcagtt cgtaaagaaa tgcaagcaat caaagagtca ctggaagaaa 180
cggagaggaa acttcaagag gcagagaggc ttcgtaattt acatgggtca gagtccaaag 240
aagaagaagg tgacgcgcaa cagacaggca cttcttcaga acagttgaaa cgttgaccgt 300
tgctagtgtg gtttttttgg caaagtcaga agagacacga atcttgtctt ttcataagcg 360
gattgactct cggcttacat agtataaggt tttggaaact gtgttt 406

<210> 1394
<211> 342
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-026-Q1-E1-H12

<400> 1394
cacgcgtccg caaccacgc agaaagatga agcaaggtga tccgaagcaa cttcaaaaca 60
aacgcattgt cgtttggaac cttccttctc acgtgagatg gcaagagttg aaagatcttt 120
tcaaggaatc gggaaatatt ctttgacag aagtgaagaa tgtgcgaaca aaggatggtg 180
gtgagacagt gatgggact gttctgttcg aatccgagga ggacgcaagg agagctgtgg 240
agcgtatgag aggaagaaac tttttaggta gaattatcga ttgtcgattt gatagtcttc 300
gttgaatagt tgtagtaaaa tatagaaaga aatgcttttc ct 342

<210> 1395
<211> 404
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-026-Q1-E1-H4

<400> 1395
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aaatacttgc gactactagg gtcgttactt taaagagaaa tgtgagagca ctggtcaagt 120
tttagtggac ttgtgagggg attgcttatg atagccaacc tgtggtgtca gttgtttatc 180
tggcggttaca ggaagacgtg tgacaggaga gctttccttt atcagacaag gcagttgtac 240
cgatcaaaca cttgtgacaa cctgactcga ttttactgat agatattccg ttcggttggt 300

tttgtactgc tctgcaagtc ctgaacagag ctgggttttta gattttgatg ataaacagga 360
cgactttctt gggtttttgaa gtaacttttc cgtctccaaa gctg 404

<210> 1396
<211> 443
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-026-Q1-E1-H8

<400> 1396

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gcagctcata gggtttgtcct acaagttttg ttaccaacga gaaccactca acgtaacgtg 120
cttcagactg aatagttcga agctgacgga agaagaaaat gtggctattt atggaaagtg 180
taacaacgaa cactttcacg gacacaacta tactgtgaaa gtaaccattc ggggtccagt 240
acatccagat actgggatgg tagtgaacct tagttcgttg aaggaagcca taagagaact 300
cattgtggag ccttttgatc acaagaattt ggacttggat gttttcgaat tctgcaaatt 360
aggtattcct agcactatgg agaacttagt tgttatcata tggaagagat tattcagtcg 420
gttcaaggac ttgctttacg aag 443

<210> 1397
<211> 389
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-027-Q1-E1-A10

<400> 1397

ctttttacta tatcgtgttg cgattctaga gcattctgcac agagagaact aaccatggat 60
gatcatccgt tgggtgaaga gcaatatgat gatgaatgga taaagaagcc caaggttgct 120
cacaagaggg gttgtacgaa cttgaccaac gaaagtattt tgaaagcggc gcagcagcta 180
tccagaggcg aagctcacta cttacttcgg caacacgttt tgacaaggct cgagttgcat 240
tctcatctcg tcaacttaat agagctgtgt caacaactgc ttgccaattc cgatggcgct 300
cgtttagcct ccttgaatta tcagtgccac cacttttcag tgactagcga caagtcaaag 360
ctcctgaacg ctttttgatt ttcccatgt 389

<210> 1398
 <211> 332
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-027-Q1-E1-A11

<400> 1398

tcatggctgc gctccgttgc gtctccagct gcgaggttat tgggttggcg ggattatggc 60
 tctcatgtat cgggatttgc gaatcgacca gtgctagtgc ataacagtac gtggcataat 120
 tctcacattg cggcggttgg tagagtatta agctcaccag tcaggaaggc gtttcagata 180
 tgctagtacc tgggtgtcga ttacgtgttg gtgatatttg gtggtgcgtc acggtatagt 240
 tcgcgatgac atcagcacgt ttctatgggc tattcgaatt tctcattcgg ttgatccgac 300
 agtgcgtcgg tgtgcctatc ttacagccgg tg 332

<210> 1399
 <211> 382
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-027-Q1-E1-A12

<400> 1399

ctgtgaaaat gcagtaaact agcagtagga cggaaagacc ccataattct tgactagata 60
 ggtttaggga ggagagagaa tcatgaagta gaggaggtgg ggtaagagat gaaagaccac 120
 tgcatgagga taaggaatct aactgagtaa ggaaaataag ctttaagctag tttggctggg 180
 gaagtaaagc ctaagaaaga gtaaattagg caagcaaagg catgagagaa gtataatagc 240
 agaagcatgc ttgaagaaaa agaaagagat ttcagaaagg gaagaaaagt cagctataga 300
 gaacatgtga aggagaactc aaaaagagga gagcaccgaa cgatcgaaga agaaactttg 360
 ggggtaacac gttaatgtgg tg 382

<210> 1400
 <211> 225
 <212> DNA
 <213> Cyanidium caldarium

<223> unsure at all n locations
 <223> Clone ID: LIB190-027-Q1-E1-A2

<400> 1400

acgcgctccgg acangcgtgg gcggacgcga gggttcgagc gtttgagttg tcgatgaaga 60
agactcacta accgatggaa tagcacaaaa gggagataat tgggaaccaa acctgggaag 120
tcccaaccag ctggatccga aaggaaagca accaaatggg gccttacagt ggaccacgag 180
taaaggtaaa agttttcccc cttggtttgg gggggtggtg aaaaa 225

<210> 1401

<211> 470

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-027-Q1-E1-A6

<400> 1401

ccacgcgtcc gcccatctgc aagagtaaca tctgatgag gcagttgcct atggtgcggc 60
agttcacgct gctattttga ctggtgatgc cagtgagaac acgaaggatc ttttgttatt 120
ggatgtgaca cccttgagtt tgggtatcga aactgcagga ggtgtaatga caaaacttat 180
cgagagaaac acgactattc ctacgaggaa atcacagata ttcactacgt atgccgataa 240
tcagcctgct gtgactattc aagtatatga aggtgaacgt gcgatgacga aagacaataa 300
cttgttgggt cgttttgact tgacaggaat tctcctatg cctcgacgag ttactcagat 360
tgaagttacc tctgatattg atgccaatgg tattttgaat gtgagtgcag tggagaagac 420
tacagtaaga gtaataagat aactattacc aatgataacg gccgcttatc 470

<210> 1402

<211> 414

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-027-Q1-E1-A7

<400> 1402

tgtatgaggt tgaaaagaag accgcagaat atgagataag aaagtacccc agcttaagaa 60
tagctgaagt tcatcggttca gactggaaaa aagaagagaa tggctcggca tacgactttg 120
agtcgcaagc atttcgagtg ttggcgctcg acattggtgt atttgagaa cccaaggaca 180

aagatagctc caacacgcat gttaagatag caatgacagc acctgtttta tcacagccca 240
taggggtccgt ggaaacacga atggacgaca gcagtctagc gtttatattt gccaaagagt 300
atgcagagca acaagaacct ccacagccat ttagaccacg agttcacttg cgtantgtac 360
ctgtcagaaa aattgcagcg actactttta gtggtactgt caatcgtgaa acat 414

<210> 1403
<211> 476
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-027-Q1-E1-A8

<400> 1403

gcggacgctt ggggtttcgt ttgtatttga gtggaaagga agtcaatatc gaccttgttg 60
ctattttaaa gtgcttctta tattccttgg agttcatatg gtctattgta gtttttgagg 120
ttagtgcttc aaaggcaaag tcgccaccag gtacttgtca gtatggacca atgtccgttt 180
gcaactttgg gatagcttgg ggtggttattg gctggctact tactatatta attattgtgt 240
tggttgttct tcacgtggtg aaagacgcct cctttactcc cctaaaggag tgtatagcaa 300
atgccgtcat ggcggtttgg tgggttattg cagctgttgt tttctctgcc aaagagcacg 360
atcacgtcag tgaaactagc actacgatca cggcattttc ctggatgttg gctatacttg 420
ctgcctgtag ctcagctctg gccttgtatc aatctcagag agagacggaa gatgat 476

<210> 1404
<211> 481
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-027-Q1-E1-A9

<400> 1404

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tggaacaaga cgctacagta gaccaattaa aagaaaagat ataccaagaa aagaagttgg 120
accccaaac aaaacggatt cgtcttattt attcgggaaa attattgagc gaaggaactt 180
caaagttagt agattgcaaa gtagaagatg gctcctatgt gcactgtgtt atctcagatg 240
aagttgcata tggtcgtacg aaccacactc aggaaagaag cgaacgttta cagactcgca 300

ttcgcgtggc tgatccccag tcagagtatc gaggtttgga ccgtctccgt gaagcaggtt 360
 ttaccgacga agagataact gttctgacgac gacaatttgc tcgtagtcaa ggtctcagcc 420
 ctgagcaagt agaacaatata accgacttga gagaaataga ggaacgatgg atgggagatg 480
 c 481

<210> 1405
 <211> 392
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-027-Q1-E1-B10
 <400> 1405

gcaatgcagg tttcttgaaa cgcgccatgt tccattttgc atatcagcga cagctggaac 60
 gagtgaagaa tggctctcga tcgtggctta tggacaagtt agtattcagc aagataaagg 120
 cttctgtctt ccctcgcccta cgatttatgg tatcggttc cgcctctctc tctgcagcta 180
 cacataactt tttaaagggtt tgtttcatgg tcccagtact acaagggttac ggattgacag 240
 aaaccactgc aggagtcaca atatgcggtc cagacaatcc tgcaggttct gtgggtggtc 300
 ttttgctgtg tgctgaaatc aaattgaaag atataccaga aatgaaactat acgtccaaag 360
 caccggcgcg tccgaaagga aaggtttgtg tc 392

<210> 1406
 <211> 474
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-027-Q1-E1-B4
 <400> 1406

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 gagaagggaa gtaaaaggta agaaagagga aaggtttacg agagaaggaa gtagaaagaa 120
 gagagtgtaa ggccggcgtca taatagaaat ccgaaaggag tagaagaaaa gagagagaag 180
 aaagaaaaga agagaaaagc cgtactgaag accgacacag gtactcgagg agaaaggaga 240
 cccaaattaa ggtgagagaa tggacgataa ggaactaggc aaaaggatat ggtatctgcg 300

gtagaacata tgaaagaagc agcaccgact gtttagcaca aacacagcac tctgcagaaa 360
agagaaaatg taaagtatag agtgtgcggc ctgccacata gtagagaaga catcgatgaa 420
agtgagagcg agtaaaagat gacgtataga gaatggcggt cctaacggta agga 474

<210> 1407
<211> 437
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-027-Q1-E1-B5
<400> 1407

tgctcgggtga gtgatcaaga tattattcctt atatgtttta tgtttggcac attttcctcg 60
tggttcgatg gatagagaag ttgttcaaaa gatgggttcaa ttgattcggt tcgtccatca 120
actcacgcat cggtcgggtt tatcagcggg tgcgattcag actgccggtc taaagtctat 180
tagtgcgaaa catttggtta tggcatatca gaggcttcaa tttttgtctc aatatatgga 240
tatgttactc gatgcactat ctacttgggt ggtaatcgat cctcatacgc tttccgactt 300
tcagaatgta caaagagagt tgagagatca tcaagggtcaa atattggcga aactttgttc 360
catcatgaac gaacgaatgt cctatcatca acagagcatc gagtcgatgg cttggaacaa 420
cgattcgctg ttggaac 437

<210> 1408
<211> 370
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-027-Q1-E1-B6
<400> 1408

gggagtcgcc ttttttggtt ttggtgtacg ttatttcaga aacaatggaa agttggttgc 60
aacaccttga aaaacaacta gaagaagcga aaaattgtaa tgataagcga gttgcagaag 120
aaaaagttca agacgtgttg aaaagtagtt ctgaaatgtc caacttgctc gtttccgtgc 180
tacctgaacc agttcgagga cattggcaaa aacaactgga aagggtttag aatgaaaaga 240
cgcaaaaagg agtttgctgt tcctattgtg caaatatcat ttcgagtgac cgaatgacgt 300
catgtccgct cggttggtcca gacaagtttt gcaataaaac ttgtttgaaa gaaggattgg 360

aagaacatag

370

<210> 1409
<211> 421
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-027-Q1-E1-B8

<400> 1409

ttactgcagc ctgtgccttg ggaatgacga gaaaggatat cgaaatattt tgcactcgac 60
tggaagagtg ttttcaagaa gcttatgaga aattggcatt gcagaagaag gaagaatatt 120
tatgagtaca tctttgggtt tctttcttta tccactctat gtataatttg cattgattca 180
agaatgcaa tatatctgta tacaaagagt tccaatgaag aatcaaagtt atttgaaact 240
tgaaataccg tatgtcctcg agatatcatc tgtattatcc agaataactc tctaaaatat 300
catccaaaaa aaaaaaagtt gatccatctc gctatctttg tcattcatta tttacttact 360
cgatagaaaa cggtccgtca agcagcgtct tttggattgg atatattttg ttccataaat 420
g 421

<210> 1410
<211> 183
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-027-Q1-E1-B9

<400> 1410

acaataattt aaacaaagac tgcgtcagag tagtagctaa gtttgactcc ttaggggaga 60
tactacctcc tgaactcgtg cgtgacggat aatgttttaa cacttttcca cgttgctggt 120
ctcagccaaa tctcactggt gagcgataac gacgatatag ccgtttcagg ggctttgggt 180
ttc 183

<210> 1411
<211> 464
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-027-Q1-E1-C10

<400> 1411

aggaagtgcg aatgtggatg aaggactgcg aggttacttg accaaatatg attgtagcag 60

tgccgatatc aatcctatcg gtggcatttc gaaagttgat ctcaagtcgt ttcttcgttt 120

tgcttcgaag cctttggaag aaaatggatt gggatacaca tctttgaaaa gtgttggtgga 180

agctcctcct actgcggaat tggagccaat tacctccact tatacgcaaa cagatgaaga 240

agatatggga atgacttatg aagaactaac ttggtatggt cgtcttcgta aattgggtcg 300

ttgtggacca gtgagtatgt ttctctactt gtcgcaggta tggagcatc taagtgtgag 360

gcaagttgca gataaggtca aatttttctt tcgtatgtat tcgatgaatc gtcataagat 420

gactacgctt acgccttctt atcatgctga gaattattct cctg 464

<210> 1412

<211> 127

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-027-Q1-E1-C11

<400> 1412

tttgattttt tcgcacctat gaaaaatccg ctttaaatcc tttggtaaac aaccgaagcc 60

tggcaatgca aagtcccgtt tggccccgtt tcttggcaat tcgactgcgg ctgaactttc 120

gggggct 127

<210> 1413

<211> 306

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-027-Q1-E1-C12

<400> 1413

gattttatac agttacttga gttgttacat cttcaaatac cccaagataa cagtttatca 60

actccgatgt cctcgtttcc ttccttttcc aagtgggcga acaagcacag tggaaacatc 120

gactagtcgt cgtcgttttt cttgttgect ttcacgagac tcgagactgc agttttggcg 180

ctgtccatag cttctgtagt ttgtcgaagc attcttttag aaagtttttc cccaaatatc 240

tttgtattat ctatgtattg tgctcttagt aaagtattcg taagggattg gcagtgcaaa 300

<210> 1414
 <211> 612
 <212> DNA
 <213> Cyanidium caldarium

 <223> unsure at all n locations
 <223> Clone ID: LIB190-027-Q1-E1-C5

 <400> 1414

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 tcgtgggtcg atggatagag aagttgttca aaagatgggt caattgattc gtttcgtcca 120
 tcaactcacg catcggtcgg ttttatcagc ggggtgcgatt cagactgccg gtctaaagtc 180
 tattagtgcg aaacatttgg ctatggcata tcagagcctt caatttttgt ctcaatatat 240
 ggatatgtta ctcgatgcac tatctacttg ggtggtaatc gatcctcata cgctttccga 300
 ctttcaaaag gtacaaagag agttgagaga tcatcaaggt caaatattgg cgaaactttg 360
 ttccatcatg aacgaacgaa tgtcctatca tcaaaagagc atcgagtcga tgccttggaa 420
 caacgattcg ctggttgaac aatgggaact tencagtcct tatatgcagt ccatcgttcg 480
 agagttgttt gttctcgaca gaaatatcca caccttgggg atggcacgag agtggaatga 540
 cctgtctagt cgggataaat tctcntatgc ggaaaaattg acaaacgtat atgaaagtct 600
 aaagtcgatg gg 612

<210> 1415
 <211> 472
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-027-Q1-E1-C8

 <400> 1415

cgcccacgcg tccgctctcc cgttttgaat gcattcgatc agtgttcggt gcaacctgct 60
 tcttacgaca tgcctaactt atctcatctt cctacatgcg atatgtatct tgtatgggtg 120
 ggtgaatcac ctcaagtcac gtcctcaagc tggtgtttcg tttggaaacc tcgtttcttg 180
 ggaaaaacta cccaaccagt ttggtgagaa cgcagtggtc acttttcaac tggacgcaga 240
 cttgcaaagc ttgtggaatc tcaacgtcaa atatgtatat ctctatttgg ttgcggaata 300

ttcttcgccc cggttcccgt ggaatcaagt aaccgtttgg gatcgttatg ttgaacgagg 360
 ttctactgtg ttttccgctt ttccgtatta caatacgttg ggtttgcaca attacgtgga 420
 tacgctgaga aacgcaagtc tggtatttcg tccggaagcg gatatcattc ct 472

<210> 1416
 <211> 248
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-027-Q1-E1-C9

<400> 1416

tccgcttttg aaaaaccttt tctgattctg cgaagcctgc atgggtgtaat tggctcttat 60
 ctgcttccaa ttctcgttat cctttgtctt tgcaggcgat gcagttggaa taagagagag 120
 gacaatggga agagaaagct ttaaaggcat ggagagaaag cagtttggtg ggattgcttt 180
 caatgaaatc caggccttgg gacataggac atacagtacg ttctccgctt gtcgatattt 240
 agacagct 248

<210> 1417
 <211> 417
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-027-Q1-E1-D10

<400> 1417

acgtgctgtg aagtgagaga acgtacgaga aagccaagtg aggaaaagaa ggcaagtata 60
 gggcggcccg agaaaggaga gggcgtaaga cgtgatacag agtacgaaga aaagagaaga 120
 gagctagaaa ggaggtaaaa gaagagtaaa aggactagaa gaggtacgga attcacgagg 180
 aaggagcgtg aaggaaggag gaatcccaag taatcgagga agaaaaagct tcggtgaaag 240
 cgtgaacgga ttttgtacac actgcccgtc aagttctgga agtgtgctag gaataagcag 300
 gggaagtaaa aggtaagaaa gaggaaggt ttacgagaga aggaagtata aagaagagag 360
 tgtaaggcgg cgtcataata gaaatccgaa aggagtagaa gaaaagagaa cagacat 417

<210> 1418
 <211> 364

<212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-027-Q1-E1-D11
 <400> 1418
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 tcttcggttg gaagtaatgc agctattatt cactatcgac cgaatccaaa ggattgtaaa 120
 cgattagata gtgaggatat ctatttgtgt gattctggag gtcagtatag agatgggtaca 180
 acggatgtaa cgagaacttt acattttggt actccaacgc ctagagaaaa ggaatgctat 240
 actcgagtat taaaaagtca ttttcagatg gacactgcag ttttttccaa aggaacgagt 300
 ggatttgcgt tggattgttt gaaaagagct cccttatgga aaagtgggtt tggactatcg 360
 acat 364

<210> 1419
 <211> 501
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-027-Q1-E1-D6
 <400> 1419
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 gttgctgcta gacttgtttc cgttttcggt tcagctggaa gtggagatgt gttaaaggctc 120
 caagagtatc ttaatatattg tggatatgcat cccactgcgc atttggaagg tagagaagaa 180
 gaaacaaatt caacggaaga gacatcgtct gctgggtggta acgttctctc atcgaataca 240
 gatcatgaaa cgtcttcttc cgcaacgaat caggcatccg atcataccac aagagatagg 300
 aaagatggaa aggagttgtc cgatgagcaa acggtagctt gtctcggaat tgcagctatt 360
 gctatgagag aagatattgg aacagaaatg gcttttcgta tttatggcca tttgttgcag 420
 tatggagacc ctgctgttcg aaagatcgtg cctctgtcgt tggggctctt aactgtgtcn 480
 tatccacggt tgcaagtgat g 501

<210> 1420
 <211> 466
 <212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-027-Q1-E1-D7

<400> 1420

ccacgcgtcg gccacgcgt cgcgccacga gtccggtaat ttggtttgtc gtcaaacaga 60
agttgaattg gaaatacatg agcgaggaat agagcttgct ttggaagatt ttctccattc 120
caaggatcgc gcaactcgttc gacaaataag aaaagtagaa catgtgccta gggagtcggt 180
gatgcaacat tccaatatta caacacgtga ggcttggtgc gctgtggtaa atattgtttc 240
cccaagtgtt tcttgatgat acaagtttgt ctaagaatcg ttgaggagtc taaccgattt 300
gttttcacct tgttggaaac ttatggatac aactcagagc tctcatgtgg tcacatcgaa 360
gcaaagtaat agcctacgta gttggaacgc attgtttgca ttgaccgtac ctagtcggtc 420
tgcaagttac gagtgccttg ctgctcagat tatcgatgca cgtcga 466

<210> 1421

<211> 575

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-027-Q1-E1-D8

<400> 1421

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ccactatcag ttgcttgctt tttgtttcag tttattacct atcatattac ttgtggtttc 120
tttgcgttca tagactatta taagcttctt ccagatcaga agctgcacaa ttcagaccac 180
aaaacttata ctcaagttgct gcctcgagtt gtgtttaatc agattgtctt ttatctgccc 240
agctttgttc ttttgcaagta tttgggagtt gcgttctgtt cctttgagcc caagatatct 300
atattggctgt ttgttgctga ttatcttttc tattctttcc ttcaagaaat tatcttttac 360
agcggtcacg gattcctgtt acattccaag tggggattcc agttgttggg acatgaattg 420
catcacacta ccaacggttc tgtagctgtc tcgcaacact atatggcccc tattgactat 480
cttattgaga tagttattac caatatgctt cctttccttt tcatgaagaa aaccaatcta 540
tattttgaga tgttcgtana tactctgaat acaat 575

<210> 1422
 <211> 371
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-027-Q1-E1-D9

<400> 1422

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 cagtggaaga aggtggtgag gaggtcgagt cggtacgtga ggaatacacc aacgtggaaa 120
 ataatgaaca ttatacagcg aagcatgaag aataagaaat tgtttccaag tttgttcggt 180
 ccaaggcagt acctggttct tcgaaagcat cgagtaaggg tatcatgatg ggcgaaaagg 240
 gatgtacaaa gagtatgaaa actgctacaa acaaatgaag tactcgatct tccatgcact 300
 cttgccaatg tcatttggtg cattcattgg aacacttcat tttgcaagtc ataaaacgca 360
 ttttttctact c 371

<210> 1423
 <211> 367
 <212> DNA
 <213> Cyanidium caldarium

<223> unsure at all n locations
 <223> Clone ID: LIB190-027-Q1-E1-E1

<400> 1423

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 caagaaacgg tgacaagtga agaactacaa ttattgctgg cagaaaatga agtgatcatg 120
 atggactatg aggaaactcc aagtgcgcct attgaaagta gaaatatttg gcaganatat 180
 aattctacac cgtcggtcgt agaaaatgga agtccttcaa aaataataga tagtgatgga 240
 gacttgatgat atacaaaact agtctgcttc cacctttttt cggtttggag gagaactgtc 300
 tgcaagtaaa acttcttcca atacaccgcg tggaaaagac gcttctggtt ggtanggctt 360
 gttattt 367

<210> 1424
 <211> 377
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-027-Q1-E1-E10

<400> 1424

cttcgggggtt agaactgttc acatggcaac tgatggcgat tccaggcatt gattatcgag 60
gagctcaaga agttgtatca tacggaattc gctctctgac agaacttga gagcagttgg 120
atcgctactc aaggcgtgac gaaagaattg cgtggctgca agagatatct cgcaaatgcg 180
gaaagaaaag gtggaatcgc agcttgtatg aaacgatgga agcgctatct tgctccattg 240
gtgggtactta tccaccatag aacgaaacgc agcaagaagt atccgtcaca atgtttcttc 300
aggttttctt ctaggaagat tctgcttggg ttgtagtagt attcacaagc aagtaaacia 360
cggactatly lclaciaa 377

<210> 1425

<211> 318

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-027-Q1-E1-E12

<400> 1425

tgtggtatag agaatggcgg tcctaacggt aaggatctaa aggtagcgaa gtatatagac 60
gtttgaaagg cgtccagtat gaaaggagaa acgagtgtag cactgtctag tctccaact 120
cagcgaaaca gcaataactg tgaaaatgca gtaactatc agtatgactg aaagacccca 180
taattcttga ctagatacgt ttatggatga tagagaatca tgacgtacag gacgtggggg 240
aagagattaa acaccactgc atgatgataa cgaatctaac ttactaagga aaataatctt 300
aatctacttt ggctgggg 318

<210> 1426

<211> 356

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-027-Q1-E1-E6

<400> 1426

aggatcgacc tgagtatcat gaagacgagt gggactatct gcagatcgca cgatcaagga 60
catcggcgtg tgagaggggc ttgggtgagg attgcatgaa agtaggttga tgatatagt 120

gagtgtcctt accttttgca cagtgtgtca gcgactgtga gaggaagctt tctgttgcac 180
 gtgtaagtcg tgatttaaga cacgatgcta cttgatctta tgctgtccaa tccaagtaag 240
 gctagaacag tatctgtggt aaaagatttg gcacagatgc gatatggggt gaaacgccaa 300
 tcatggcgat tgatatctgg tactcctcgt catctataga agtagcgtat gcacgt 356

<210> 1427
 <211> 450
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-027-Q1-E1-E7
 <400> 1427

ccacgcgtgg ccaacgcgtc cgcggaagag tgggacactg ggtagatttg aacaaggact 60
 ttcgaagccc ataaccgtta tcaaacggca agatcgagtt ggcttgggag ccgaacaaaa 120
 gacagtctgg aatgacttgt ggtgggaaag atatctatcg gaagcaatca ggaagaatct 180
 ccaacgtttt gaaagatcca cgacggaaaa aggtgaagac attgcagagg aaagtactgt 240
 ctcacgaaaa gaacggagga ggaagaagaa aacaagtagt tatcgttcga agaaacgaaa 300
 agaaagagct ataaaggaag atgggaaaaa acgaaaggct cgcagagata gataggatgt 360
 attcgcaagg tttaacatca gtacgactag tgttgtttat atcgaaacga taactctttg 420
 atgtagaagt cagtaatacc ggataaaata 450

<210> 1428
 <211> 484
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-027-Q1-E1-E8
 <400> 1428

cgcgctccgc cactgagtcg gagatgaagc gtgcatggca ctggatcatgt agcaaccgct 60
 ggttcgtcta ttacatcgcc agctggtcgt gtgattctct cttgtgaggt tagctccggt 120
 atagcaaggt taaagccatc ttggaatcgt ccagacttta agtagattgg tagttcaaat 180
 ttattttgaa aaaaagtaac gctaggatgg tttggctttc accttgtcgt tttttcttct 240
 tgggttgcta ctactgtaac gcggtgctca gggaacctag aatgaatccg aaccaaacga 300

gcgaggtttt gctatgatag agtgataaga acgttgacgt ggacagacgt cttttgttcc 360
 ttttcgttgc aacaagtaca aaagatcgtc acaggaaaaa catcttgtca ctgagtacaa 420
 cgtgcatcgg tgcagtgcac tctacnagca caattctatt gataaactag tacaagacaa 480
 caat 484

<210> 1429
 <211> 221
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-027-Q1-E1-E9
 <400> 1429

atttgtcata agactttcga gtctctatga ggaacatact gatcatggaa ctgtttgggt 60
 aactatgacc cgaataggac atcgcaacgt atgtctgttt atctattcag agcctctttc 120
 ttcggtgagg cgtggctggc tagaaacacc ctcattcggg gtgtctgata ggagcgacgg 180
 atggcaactg gaaaatatct tgttttatcg tacgttcttc t 221

<210> 1430
 <211> 276
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-027-Q1-E1-F12
 <400> 1430

tgggaatttc gtcacaacag gacggtaccg gttttgcact ttttaggaga tcactcttct 60
 tgtctgtatg attgctttat tgattgcaca gcagctgatt ttccggagaa gcctcaaaga 120
 tttcgagtcg tatacaatct attatctatg acatattcat cgagaataag agtgcagacc 180
 cacgtagatg aggtaactcc tatagagtca gctacttgtc tatttaaagg tgcaaattgg 240
 gcataacgag aagtgtggga cttgtttggc gtattc 276

<210> 1431
 <211> 492
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations

<223> Clone ID: LIB190-027-Q1-E1-F5

<400> 1431

ttacataagg cggagtttca nagaagatct agagtgtcaa tctgtcnctt ttttataggt 60
atagagtgac aagaggggtg cgttaccaat acggcatgtc tgcgcactcg tcgactcaca 120
aaaaaagaaa gactatggca aaagaccgaa tatgattcga caaagagtaa acatccgtgg 180
aacttgtatt gtagcaaccg ctggttgatc gtttacatag ccagctgaac atgtcttggc 240
ctcttgcgag atgcgctcnc gtagaactag gttaacaagc catcttgagg tcgtgtaggc 300
tttatgttga ttgttaatcc aaatgcaagg acggtttgga ttccacctcc ttgttttctt 360
cttggttgc tctgtctgta ctgcggtgct aaaaggaaca agagtgaaag cgaacaaaaa 420
aggcgaggtt tcgctatgac agagcgaata gaaagttgan atgaaaagac tgcgttggtt 480
ctttccgtgc ac 492

<210> 1432

<211> 305

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-027-Q1-E1-F7

<400> 1432

ccacgcgtcg acaatgcac caccgncgag tcgccggacg tgtgggatcg attgatgcgg 60
aaaacgttcg acgcgagatt gtcgtcagaa agataaagga accttttttc acaaccagta 120
aatacttaca tggatataac atctttcata tcatatagga acttttcctg gggtacacga 180
cagcccaact ttatatctgt cggaagcaa cgtacgaaag caacatatct gagaacagta 240
aagtccaacc agttggtaga agtatcatgc atgttgaaat cgatcccttt tttccaaaag 300
ctatc 305

<210> 1433

<211> 384

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-027-Q1-E1-F8

<400> 1433

tcatatatta gccaggagta tatggagagg ataagagaag agagtagggt gtatgtagga 60
atgagtataa taacaggaat gatatggagt aaagaagtgt ggggatcatg gtggataaat 120
gatgtaagga atataagcat gttagtatgc tggatatggt tggaagtaat aggaggagta 180
aagaaggagt acagaggaat aataagcagt ataggaataa taaatatacc gataataaag 240
tactcagtag agtgggtggaa taccttgcac cagccagtga gtataagctc atggggagga 300
agtataggaa gagaagaagt agaagaaata gtgaaggtaa taataatacg agtaatggtg 360
agtatagaga agaacatgat gaag 384

<210> 1434
<211> 292
<212> DNA
<213> Cyanidium caldarium
<223> unsure at all n locations
<223> Clone ID: LIB190-027-Q1-E1-G10
<400> 1434

ttagggaggc ngatTTTTTg cctgangagt aggatgaaga ggtagacgtt gaggattatc 60
ctcaatcgcc acctttggtt cgagaatcac cggaaccac taaaaatgcg gtcaacgaac 120
aggaatccga tgcggttgca gacgaataga ttgtgcgtct acagaaacag aaggacatgg 180
agaggtttgc ttccttggac gaggaataac aggaacgcta tggctattat cgtatgggag 240
atttgatata gtacagagtg aagacgctgg tctcagcggc caatcctgcc tt 292

<210> 1435
<211> 379
<212> DNA
<213> Cyanidium caldarium
<223> unsure at all n locations
<223> Clone ID: LIB190-027-Q1-E1-G11
<400> 1435

gtcgggatga agggcacaag tccggttaaa cgttaccgcc acaggttggt gacaccaaag 60
caaccagtag acagataaca agaatttttg cttgttcaga agaaacaaac ataacacatg 120
cgtgggtggt tggtaaaaga acgcggttga gcttaaaactg ttaacctttg ttcttgtgac 180
agtataaaga gtcttattct tcgtagctcg gtccaaagcc gagttttcct gtcacctaaa 240

aattagacat tctcagctgt ctttgcctt tttcaagggtg aatatatgat tacaccgagg 300
 agctttttaca cgcancaaga acgacaaact ggtagaatgg tacttggtga acgactgcaa 360
 actgtacagt caaaaattc 379

<210> 1436
 <211> 477
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-027-Q1-E1-G2
 <400> 1436

tatgttggcg tttacttgtc tcacagactg tcgttgggtta gagacttctc gattttctcag 60
 atgtngcana gccaataccg tctcgttgcg acgtagtcc cagtgttcac actcttgagg 120
 gagtgtttcg atgaactaca gtcgctattc gataactacc gacaaatcag aaggacatat 180
 tgttcccggg actttttcaa gatttgagtt tcttgaaggc cgagtcaccg gtccaaccgt 240
 cttgaacct agcatacttg actttacagt gtctaattgt tcagatgctg cttttggaga 300
 atggagagca ttatcggctt caagtatagc anaagaactg gaacacagaa gaaacgtcac 360
 aaagcgacaa tagaaagtct caagaagact cctaccgaaa agtcaaggct tacattttct 420
 ggacaacttg aagaatttta tcgaaggaat ttaaagatat ttcaacgagc cgggtga 477

<210> 1437
 <211> 329
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-027-Q1-E1-G3
 <400> 1437

aagcgcaagt ctcgaaagaa gcctattcag aagacaaaa agccaacgtt ggacagagtt 60
 ttcaactgtc ctttttgtgg acacgaaaaa acagtcgact gtactatttc caagtcaaaa 120
 ggaattggtt ccgtttcgtg taaagtttgt caagcttcgt atactgcaca agtgactcac 180
 ttggatgaag cagtagacgt gtacgccgaa tggatagata aaactgttca agccaatagt 240
 tgacgacttt gttcattgtt gtgggaatat tccaacacca agtgtctgcc ataaaagtga 300

gtatctttca aagacaaaaa agacacggc

329

<210> 1438

<211> 506

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-027-Q1-E1-G5

<400> 1438

ccacgcgtcg agctgaattg tttccagtga gtatggcatc tataccaacg acacaaaagg 60
cgctggaggt tggttcagttt ggagacccgc tgaaaggagc actgaaactt aacaaagagg 120
ctccagttcc caagccaggg gaaggacaag ttctagtcca aatgaaatat gcctgtctca 180
atccggcaga cgtattttaca gtccaaggaa tatacccagg agtcaaaaac gtagttgaaa 240
agaaaccagg tttttagtga ggtctcgaag gtgcagggca agtggttagct acaggggtccg 300
gttggttcatt gaaagttggt gctcgagtcg tacctttgct aggagaaaag gctgggttcgt 360
ggcagcaata tggtgttgct gctgaaaagc aatgtgtgcc agtgcttgac gacgtcgacg 420
atgcaacagc tgctcaactt tttgtcaatc ccttaacggt ggtaggtatg ctggatgaga 480
ttcagcgcaa tgctcccata aaagac 506

<210> 1439

<211> 523

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-027-Q1-E1-G6

<400> 1439

gggcaaagaa aggccagtta atagatggaa aggcaattgc tgctgctata agagaagaaa 60
taaaggaaga agttacaaag atagaagccg cggttgaaa agttcctgga cttgctacgg 120
tacttggttg gaatagaaca gactctacta cttatgttcg gatgaagcga aaagcttgcg 180
aagaagtagg aatcgagtct tttcacacgg aacttcaga atctgtctct gaagaagaac 240
ttttgagttg tgtcgaaaga ctcaattcag atccagcggc tcacgggata ctcgttcagc 300
ttccactccc gaaacatatt aatgaggaga aaatcctttc agccatttcc attgagaagg 360
atgtggatgg ctttcaccca gtgaacattg gaagattggc aatgaagtcg agaactccgc 420

gcttcgttcc ttgtacaacc agaggctgta ttgagctgct ggatcgaagc aacgtcgcta 480
 ttgagggaaa gtgtgctgtc gtgttgggaa gaagcaatat cgt 523

<210> 1440
 <211> 398
 <212> DNA
 <213> Cyanidium caldarium

<223> unsure at all n locations
 <223> Clone ID: LIB190-027-Q1-E1-G8

<400> 1440

accacgcgtc gcgcaatgca gcgtangaga ggaccaaata aggtgtggat agtaggaata 60
 ggacagccaa tagcagatgg attgaagtta atgataaaag agggagtaaa gccaacaaga 120
 gcagagggaa tgatgtataa agcagggcca gtagtaacat ggatgttatc gatgctagga 180
 tggagtgtag taccaatagg agaaggaaag gtaatagtgg atatagaagt gggaataata 240
 gcatggatga gtataggatc attgggagta tatggagtaa taatacgacg atggggaagc 300
 agttcgcagt acagcataat gggaggttta agaagtggag cgcagatggt atcgtatgaa 360
 ttaagaatgg gagtaatgat gatatgtata ataataat 398

<210> 1441
 <211> 398
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-027-Q1-E1-G9

<400> 1441

gcaatcttct caatgagtcg tattgtttct ccttgtgcaa gttgccacgt ttcgtttata 60
 gtccaagata tcaggttttc tttatttact ccacgtttcc aaagcaaata taaaacgttt 120
 tgttttttgt gttgttggtc gaatagcaac agcgataacc acgagcaaga caacgaggca 180
 cctaggacga acaagttggg tccaaggaag gacataagac gctgcttaat aacacgtgaa 240
 aagcttccca aagaccaact ttggagaatt gtacgaacac gagacgaaaa tggaagatac 300
 aaagttcagc tggataaagg aaaagggaaac gtccgtatat atctcaaacg acatacaact 360
 aagtttacga gctcaaacc gtgtaaaact gttgaatc 398

<210> 1442
 <211> 53
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-027-Q1-E1-H10

<400> 1442

gctacaaagt ttttaaccgg tatttaacaa tttctcaaaa tatacagaaa ata 53

<210> 1443
 <211> 400
 <212> DNA
 <213> Cyanidium caldarium

<223> unsure at all n locations
 <223> Clone ID: LIB190-027-Q1-E1-H12

<400> 1443

gagaaaggat accactgagt atcatgaaac gggtaggacac ggtagacacca atcccccaagt 60
 aagggttcct tttcaatggg gaattcgacac aagttcccat ggccccctgt tcccacgaaa 120
 caaatgaaat cctttgtttt caaagttctt caagtgggtt tgtacctgtg gagtttcttg 180
 aggtgaaaaa agcacaaaga cttgaagtac cttgaagaaa cacttggtact tgttgttcct 240
 tattccaagg taatccaaag gaacacacca ttgggcaatc caggtatcga cgtcctttcc 300
 tatccacaca aaactgctat agttttcttc cgtgacataa acgttatcca tgggaaaaga 360
 tgtgtctatc caananaaaa aaaaaaaaaa aggcggggcgc 400

<210> 1444
 <211> 284
 <212> DNA
 <213> Cyanidium caldarium

<223> unsure at all n locations
 <223> Clone ID: LIB190-027-Q1-E1-H5

<400> 1444

ccacgcgtcg gacgagctta attcttagag atngttgctg actagcagca ggagtagtac 60
 aactgtcgcg gggagatgga ggagtgatca ctttatcccc cacggaggcg tttctgtcat 120
 ccgtaacggc ctttctagcc taggaaaact gcttcgtttg ttgagaagaa tgtcagaaac 180
 ttgtgacatt gccaaagttt tggctattct gtatgctgct tgtatggctc gaataacgtg 240

gtttgctttt tttttactcg gataaagggtt tttgtttgtt cttc

284

<210> 1445
<211> 268
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-027-Q1-E1-H6

<400> 1445

cacgcgtcgc cgacgcgtcc gcccacgagt cgggttggct gtttgcaatt cgcttgtggc 60
gtgtgaagtt ttggttacct tgaaataatg cagatatttg taaagacact tacaggcaag 120
actattactc ctgaagttga gccttcagat actattgaga acgtcaagtc caagattcaa 180
gacaagggaa ggattcctcc agaccagcaa cgtttgatat ttgctggaaa gcaactataa 240
gatggtccta ctctttcaga ctataata 268

<210> 1446
<211> 452
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-027-Q1-E1-H7

<400> 1446

ggaattccga attgaccacg cgtgggacgac gcgtccgcgg acgagtggga attgattttg 60
tcatgtcgtc ttcaaagtag tctatcgaga cgttattgct aaagacgttt cctaaagaaa 120
tccctacttc gtattgtctc gtgtatgcac ttttggtat tccggtactc gcgctcgacg 180
tgtagttata tcttgccgta ctccacttga acttattgct tcaagcgttt cgttgatcat 240
cggtactaca gtcggccttg tgcttctagt tacgtcgtat cataaaactg catatgccaa 300
gtggtctaag ctcgatcgca caacagagca accaaccaag agctctttca agggtaat 360
gtcggcatat cgaagtggag ttgagagtca actatggctc ctggaaagat cctcggtcag 420
ttacagtgtg atgataaaca acgcaatatt tc 452

<210> 1447
<211> 389
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-027-Q1-E1-H9

<400> 1447

acgcgctcggg gacgcgtccg ggtgagaaca atatcgatca agtgttcatt attcgctgcc 60
atgaactttt tacaaaggaa atacatcaag ttactgcttg ttcttaacat tatttttatt 120
ttctcactag tagggagtgg tcttgagcac ttcccaaacc tagttagaga gtatatgatt 180
ctgaccccgaggagtagc tcaacttagc caagcagaac aagcagggtg tagacaagtc 240
agtgtgccag ttattacatc aacagtttcc gctgttcaag cagtatcttc ttcttactac 300
gatgggggca ttacagtca gtcataacct cacaataagt ttccaagtcc tgcctacga 360
tcctgggcat ataccattac tccaacgtc 389

<210> 1448

<211> 568

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-028-Q1-E1-A10

<400> 1448

gagtcgtata acaaattgtac ctcgaaagcc attgcatatt ttaatgagta ccaaagactt 60
gcaacattat tctcgaatat tttgtattgt atttgctgta gcacatgttc gctttcaaatt 120
ggagcgggtg tggttcctct tgcgaaatgt attcagagaa tgcaatcgag tatctctcgt 180
caaacacaga aatacattac aactactgag gatgtgcaat ttttgtattc attgtattga 240
agaattcttc cagattgact tgattgaaga gtcctttgaa aattttatga aacaggcaag 300
aggagcttct gactttgata ccgttcattt gttgcataga aaatcttgat actcttgtcc 360
atcatacttt gatatactct gcatacttca tggagtcgtt ggatagtctt ttgcaggat 420
tccgagaata ttgtttatac attcaacaca catttataga agacaaagct attgtccaag 480
aactatctac ggaaaggaca cgaacattcc atgattcacg agcgtaaact tccgtttctt 540
caagagctgc ancaatatct caatcatc 568

<210> 1449

<211> 491

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-028-Q1-E1-A12

<400> 1449

gccacgcgt ccgtgttttt tgcggacact tgaagacagt tggaattgga taaaagagac 60
gaggggagca catacagaag agaagctttc cgaggagaat tttgtctgca atagtatgaa 120
gcaagtcgtg actgacacaa tagacttgct agaaagagta gagcagagat gcatagaatg 180
ggacaaaaag acagaaaagc tttcaggaga agtgaacaa gaatatgttgc cgtttttggc 240
gccttttgtg tatcagcgtt ttctcgtgtg tttgtttact tggaacgctc tgttgattga 300
atgttttcat tctaatttct ttgtagtcga aaccattcga gggtttgtta cactgactgt 360
tggtgcccct gttttagctc ttgccgctag tctttcgttt gcgcattatt atcgacgcaa 420
aagtatgccg atttttgcaa aggaagacac atttttcgag tgaaggcaca aggttttgcga 480
aaataaagaa t 491

<210> 1450

<211> 435

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-028-Q1-E1-A3

<400> 1450

acgcgtctgc ccacgcgtcc gcagcatacc agagaggggtg gtgtgggtgc gggagtgtgg 60
tctttttgca agaataaagt catcgtaaag tgcgctaaga atactgataa atgtcacgca 120
accaacaagt tgttgggtat gggagcacgg atagaacaag cccgcaagtg atgtgtagtg 180
aaaacagtgg tgctgttgct ggctccttgc gtggcgccaa ccacgaagac caagctttgg 240
tggaacctg gattcgaaaa gctttctctt tgttcgacca ggacggaaaa cgttatgtgg 300
atagtgtaga ctttgacagc gatatccagc acttgtttcc caactgtaac gaacaagaag 360
tcgaagagtt gctggaagac acggacctca acggtgttgg agttgtcact tgtgacaact 420
tttgtcgcgc aatga 435

<210> 1451

<211> 412

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-028-Q1-E1-A4

<400> 1451

cagaatttga actttgcaga aatcgaaaag gctattcata aattgggtga acacgcgaga 60
ttagggaaac taaccattca agatatgcaa ggcggtactt ttactatttc caacggtggc 120
gttttcggtt ctctcgtatc cacgcctatc ctcaatatgc ctcaaagtgc aatattagga 180
atgcatgcca ttcagaagag gcctgtagtc gtgaatgac agattgtcat cagacctatg 240
atgtaccttg ccctttctta atgacatcgt ctagttgacg gaagggaagc ggtaaccttt 300
ttaagaagaa tcaaaagttt ggtggaagac ccacgcaaaa tgttactcga tattgatatt 360
tanactccgc aatatgagtt ttctaacgtc gccgacactt ggaaaataca at 412

<210> 1452

<211> 259

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-028-Q1-E1-A6

<400> 1452

atcttggcat tctcacttg gtgacgctgt ggngatggtc gacctgactg cacaaattga 60
aacacacaag gtcacagtgg aagtaagagc ccctgaaagt ggaacgatat tggaagagct 120
ggctaaagct ggtgatactg ttgcagtacg ggccgaaatc acgcgtttta caccaggagc 180
tgtatccgaa cgacgtgaaa gtgaccacac gaatcggaga caccatcttc tatccaacac 240
gtatcttcaa gccctgtat 259

<210> 1453

<211> 327

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-028-Q1-E1-A7

<400> 1453

atctaagaca aatatttgtg taaaagtttc tcttttgtaa taacattgct atggatactg 60

tgcgtcatct gaaacaccgc ataaggaata tcaattggaa aaatgtgaaa cgcactgctt 120
 ccatagccaa agggaaggcg gtttccaagg tgaaggattt ttacatgacc gactttgaaa 180
 accgaatacg taaagctact tctaatagaa actggagtat gggttccgta cagttggcag 240
 agattgcccc gtgcagttat aaccctttgt tgtataaagt tatgatggat atcgtgtaca 300
 gtcgtttaaa ggacaacgga cataact 327

<210> 1454
 <211> 238
 <212> DNA
 <213> Cyanidium caldarium

 <223> unsure at all n locations
 <223> Clone ID: LIB190-028-Q1-E1-A8

 <400> 1454

actcatggcc atgctgttgg taatgtgtgt ctatagaaga acatgaggaa gaaagaggca 60
 catacgggaa agcagtaaaa gaagaaagag aaaggaaaaa actgagtatc acgaagaaaa 120
 gagggagtag atgaggaaaag aaagatcaag gaagtaagag taagagaacg agtaatgtga 180
 atganagcac gaaagtatth gaagaagaga gtgtaaagcg cgtacctttt gcataatg 238

<210> 1455
 <211> 458
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-028-Q1-E1-B10

 <400> 1455

tcttttggga catctttcag gatccacaca ttgtccactt gtacggaaat tatgcagagt 60
 ttggcatttt gtttactt gcctgtgacg cgagttgcac agttcctcaa ggtaagcgt 120
 aaattgatat ttggaggaaa gcttcctgtt tgcgcaaata gatatagatt ggtcttgcca 180
 caaaacacac tcatgagcct ggagaagggc agaaaggcac cgagtgatga agaactacga 240
 cagaaacttt cgagctttga atatcacgtt ttaagggaag gaggtacaga acgtgctttt 300
 actggagaat attgggattg tcacaaacag ggaatttatg agtgtcgtgc gttgggttac 360
 cccacttttc caagtcagat acaaggtacg actctggttc acgaaggccg tctttttttg 420
 cccaggtaa gaccgatgca gtaactactc gcacagac 458

<210> 1456
 <211> 457
 <212> DNA
 <213> Cyanidium caldarium

 <223> unsure at all n locations
 <223> Clone ID: LIB190-028-Q1-E1-B11

<400> 1456

 tacaacactc gatcgtgagt cgtatagaga acanaactgt caaacttgtg agtagtgata 60
 atgaagtttt tgaagtagac acaagcattg tatccctttc tgaacaata aaaaacgtct 120
 tggaagacac ggaggatata gagagcattc ccttgccata tgtggaagga cgaattcttg 180
 caaaggttat cgagtattgt agatatcact cactcttaaa gaccattccg cagtctgagg 240
 aggatattga gcgctgggat agggaattcc taaatgtaga tcaaccaacc ctttttcatt 300
 tgattctggc tgcaaaactat ttggatatca agagcttggt ggatttaact tgtaaacgag 360
 tagcagatat tatcaaaggc aagaagccgg aagaaataag aaaagagttt aatattgtaa 420
 atgattttac tcccgaagaa gaagaagaag tacggag 457

<210> 1457
 <211> 524
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-028-Q1-E1-B12

<400> 1457

 ccatggcgaa aggtagacta caggatcgtc ttgagaagct tctgccttat aatcagacct 60
 ggtattttta tataaccaag atagtatttt acgtatgcac ttttattttc tctgtcgtca 120
 ttgctgctct ggtcagtaac gcagagttta atatatttga taaatcccca ccgaatattc 180
 atggagactt ttgtgcatat aaggcgtcac tagctgagcc agctggcgtg actgccattt 240
 gcaagtacct catagcagta ggtgctcttg gccttggtgt tgctataggg tttgttgcatt 300
 tctctctatg gacccttttg gcacatcgag tgattgattt atggtgggtc gaagccttgt 360
 tgaatacctt ttggatggtc tgggtggttta tagcagctgg agttgctact gcagccaggc 420
 cttcaaccgg tattcttgat gcggccaatg atcggtcagc tatcaatgca gttgaagctg 480

ttgcctgggt caacgcagtg ttgtatctct tcaacgtatt tctc

524

<210> 1458
<211> 466
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-028-Q1-E1-B3

<400> 1458

tggttaagcan acatgggagc ctacaagtat atgcaagaat tgtggagaaa aaagcaatct 60
gacgttatgc gctttttact ccgcgtccgt gcttgggaat atcgacactt gccttcgggt 120
caccgagctt ctcgctgcac tcgtcacgac aaggcaagaa tgcttggcta caaagcaaag 180
caaggttatg taatctacag agtgagagtc cgtagagggt gtacgaagag accagttcca 240
aagggtatcc aatatggcag acctaagaat cagggtatca cacaactaaa attcaggaga 300
aataagagat cagttgcaga agagcgagct ggaagaaggt gcggaaactt gagagtcccta 360
gactcttatt ggatcaatca agacggtatt taaaaatatt atgaagtgat actcgctgat 420
cctactcaca aggctattcg aagagatcca aaatacactg gatatg 466

<210> 1459
<211> 422
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-028-Q1-E1-B4

<400> 1459

tcgcttttta tgaaagcggt acacgacaaa gcagagaagg agtctatcat atacgcctct 60
atacgtcca gcggtttcca tggtagatga cactattcct ccagcttcag acgcgaatca 120
agacagctaa cttgatagtc gttccgcttt ggtcgatttt tttgagagcg cagaggttcc 180
cgatcagacc gtcagaaaa atggtatacg atatagacaa gtacgatttg cagacaagac 240
caactttgcg gaacaattca cgcaaagttt ggaagagaaa ttgcagtcct ctcaagtttg 300
gattgaccag cttcaagagg aaaatcgacg actgacagaa aagttgggtca taatgacaga 360
tcaacaggaa atgaaagatg aagttgagct catgacgttg gaaaacagtg aacttggtgc 420
tg 422

<210> 1460
 <211> 293
 <212> DNA
 <213> Cyanidium caldarium

 <223> unsure at all n locations
 <223> Clone ID: LIB190-028-Q1-E1-B5

<400> 1460

 attaccgaga aggataacta ttgccggaag gaattcttta ttttatccga gaaggcaacg 60
 agtagaaaat caacanaacg aagcacaaca gaacggcacg gtggagcaag caaaggctgt 120
 tactcaaagc tcatcaaact gtacagacgc cattccagaa agagaagtca cngacaagga 180
 aaatcaaagt ctcatctcac ctaactggta ggagtcacgt tccatgaaac ccagccacaa 240
 gatcatcaag atgaacaatt caattcgga ctaaagtatg acaacaaagc tgc 293

<210> 1461
 <211> 378
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-028-Q1-E1-B9

<400> 1461

 atttgcaacc gaagttgctg gaggaccgga ttgggaacg acgggacgtg gaagagatac 60
 agaaataaat acttatgttg aaaaagtatt tcgttcagaa ctttcaggaa atgtgattga 120
 cttgtgtcct gtgggtgcgt tgacttgtaa agaatatgtt ttttcctctt gtgaaaatca 180
 ataaaaccaa ctagcatttg ttacaagcct tggaaaaaaa aaaacaacaa aaagaagaac 240
 aaaaaacgac gacaaaagaa ctagcacata gcagaagaaa agaagaagcg aacatctgaa 300
 ggtaacggag agtaggtgct aatggaaact gtccaccatc caatgaaaaa gggggggggc 360
 cccaagggg ttaacgtt 378

<210> 1462
 <211> 556
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-028-Q1-E1-C10

<400> 1462

ctaccaactg tttagctcct ttgactaaag ttatcaatga taaatatgga atcctggaag 60
gtttgatgac gaccgttcat gcaactactg ccacccaaaa gacagtagat ggaccttctc 120
acaaggattg gagaggagga agaggaattt tgaataacat tattccatct tctactggag 180
cagccaaggc tgttggtaaa gttattcctg aactgaatgg caagttgacg ggtatggctt 240
tccgtgttcc ttgtccggat gtttctgtcg tcgatgtcac ttttcgttta aagacaccaa 300
ccacttatga cgatatcaag gcaacgatga aagctgcgtc agaaagcaaa gctttaaagg 360
gaatattggc atataccgaa gatatggtag tttctactga ctttgttcac aatagtcatt 420
cttcgatatt tgatgcgaat gctggaatta tgttgytgya aacttttgyt aacctgattg 480
cttgggatga taatgattgc ggctactcca atcgtgttgt acatttggtg caacatatgg 540
cgacagttga tgggtg 556

<210> 1463

<211> 488

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-028-Q1-E1-C11

<400> 1463

tatcatgaca tatagtgaga aacctgatta tgagaagtgt gtcgctatcg ttgcgaatgc 60
tgcactgaga cagatggtcg cacctggttt gttagttggt gttgtccctc tttttgtagg 120
gttccttgct gcatggattg gaagagtctc aggaaaatca ttgttgggag tacaagtttc 180
tgcaggcata ttaatggttg gaacgatcgc tggattctg atggcacttt tcttgaataa 240
tagcggcggg gcatgggaca atgccaagaa gtatattgaa acaggtgcat atgggtggaaa 300
aggttccgag gtcataaag ctagtgttac tggagatact gtgggtgatc cttttaaaga 360
tactgcaagg ccttccttac atgtcttggt taaattacta tccaccctca cactggtggt 420
tggtccgctg ttcttgactt cggcggggaat aaaagtcatt tctggctaaa gggcattacc 480
ctacatat 488

<210> 1464

<211> 558

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-028-Q1-E1-C12

<400> 1464

ttcatattcc tttgaacaac ttgggaatga cgcaagctcg tttccaagtc tgcaattcga 60
gtctttcaga atatggcgtg atgggttttg agttgggata ctccttgga agtcctaata 120
ttctagtgat atgggaagct cagtttggag attttagtaa cggtgctcaa gttatcattg 180
ataccttttt agccgcagga gaaaggaaat ggagacgtca atctggactt acgctattct 240
tacctcatgg aatggaaggt caggggtccag aacattcttc cgcacgattg gaaaggtttt 300
tgcaattatg tgacgatgat cctgatgtaa tacctgaaat gcatactgat cgaactcgac 360
aaattcagtt gtgcaatatg caagttgcc aattgttcgac acctgcaa atcttttcata 420
tacttcgtcg tcaaatacac agagagtttc gcagacctt ggtattgatg actccganat 480
cgttattgcg acatcctttg tgtaagagcg atttggcaga ctttcttcga acaagttggt 540
tcaaagagtc atatcgga 558

<210> 1465

<211> 488

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-028-Q1-E1-C3

<400> 1465

aatccgaaag gagtataaga aaagagagag aagaaagaaa agaagagaaa agccgtactg 60
aagaccgaca caggtactct aggagaaagg agaccctaat taagggtgaga gaatggacga 120
taaggaacta ggcaaaagga tatggtatct gcggtagaac atatgaaaga agcagcaccg 180
actgttttagc ataaacacag cactctgcag aaaagagaaa atgtaaagta tagagtgtgc 240
ggcctgccaa atagtagaga agaaatcgat gaaagtgaaa gcgagtaaaa gatgaggtat 300
agagaatggc ggtcctaacg gtaaggatcc aaaggtagcg aagtaaatac acgtttgaaa 360
ggcgtccagt atgaaaggag aaacgagtgt agcactgtct agtcgtccaa ctcagcgaaa 420
cagcaataac tgtgaaaatg cagtaaaacta gcagtacgac ggaaagaacc cataattctt 480
gactagat 488

<210> 1466
 <211> 131
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-028-Q1-E1-C6

 <400> 1466

 tgattggaac ggctctggtt gtcacaccaa cttttctaca aagccgatga gagaagatgg 60
 cggttacaag aagtatattt tgccacgtga tggaaaagtt aaggcaaaac ataagggaca 120
 catcaatgca t 131

<210> 1467
 <211> 434
 <212> DNA
 <213> Cyanidium caldarium

 <223> unsure at all n locations
 <223> Clone ID: LIB190-028-Q1-E1-C9

 <400> 1467

 gagtcgtata gacaacngtt cacagcngcg agtgtaccag ctcgttgccg actgctgttg 60
 gatcttcttc ttgtatgttt gccagcgtcc agcggcaagc agttgacatc agattgctgt 120
 agaagttcat gtccgtaggg agtgtatgag acttagtgcg gcttgcatga cacattgagg 180
 ttggtatata gccatttgag aagctgtatc agtgggacaa ggtccacttt gtcgtcagct 240
 actttcttgt ccagatatct tgtcacagta acagacattt taaggagcac actgttttcc 300
 gacagtcata atcattcgat gaaagcatcg tgattgacta tttttagggg aacggtgaat 360
 cttcatacag gagacacttc gctgattgaa tttgtgtcca ctggtgtatt tcgcacggtc 420
 atcagaacag cttg 434

<210> 1468
 <211> 287
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-028-Q1-E1-D10

 <400> 1468

cggtggaaat aggaaacttt tcaaccagaa atcctctaga ctgagattcc tgaacaaata 60
aatcaattcc agcacgactt tcaccaagga cttcatagaa aaccccgttt ggtttcaaga 120
aaaactcaat ggtattcagt aacggcacca catgaaaatc acagtaagtg agttcacttc 180
ctaaaacaag gataaaagaa acaagttttc tgatataaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa aaaaaaagaa agaaaaacaa caagaaagaa acaaaca 287

<210> 1469
<211> 71
<212> DNA
<213> Cyanidium caldarium
<223> unsure at all n locations
<223> Clone ID: LIB190-028-Q1-E1-D11
<400> 1469

gagtcgtata acatagnent gctgttggtg tgtgtgtctt ngngnntct ttgtgggntt 60
cgggggccct t 71

<210> 1470
<211> 577
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-028-Q1-E1-D12
<400> 1470

cacttgggtg cacgaggtgc tccgaaaaac aagtgggtggg aatattgttt ggaagactcc 60
ttgacgtca ttgcaagggt gctcaagtc gcagccattg tgtatagaaa tacttattac 120
cagggaaagc aactggaagc agacttgaaa ctagatatgt ctgcaagggt gacaaagatg 180
atgggttttg agaatcccg gtttgatgag ttgatgagac ttattttgac tattcatgcc 240
gatcacgaag gtggaaatgt ttcagctcat tccgttcgtc tcgttggttc cgcactttca 300
gatcctttct tgtctttttc tgcaggaatg aacggtctag ctggacctct acacggttta 360
gccaatcaaa atgtacttac gtggttactg caagtaaagg aaaagttggg tgggtcaagct 420
cccacaaagg aaaacctaac aaagatttgt tgggatactc tcaactcagg caatgtgaat 480
cctgcctttg gacatgcagt tttgagaaga accgatcctc gttacatgtg ccaacgagag 540
tttgctttga aacatcttcc gagtgatgaa attttcc 577

<210> 1471
 <211> 420
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-028-Q1-E1-D4

<400> 1471

ctctcgtgcg atgatgaaaa cactcctaata tcgtcagtga atacacagaa gcagaacact 60
 tttaacagag ctcaattttt tacagctgtt ttactcaac tttctaacta ttctacgatt 120
 tgataaaatt gctgcagtaa cagaaacaag tgctgtggaa aagaatgcg tcacggaaac 180
 catttcggag ggtctgtcga agattctaac gagaaaagga tggaaccact gtgaaagcac 240
 cacgaacgat actaaaccaa aaccatagtc ttctacaggt atgaagcacg ctgaacctct 300
 atcggaagac gatgaacaca ctgctgaagc ttgattgac aagttacaag cgcggcagca 360
 acctgaacaa aagcgttgat tcacgatcgt gtgtctgtgc tttctggaaa ataacttggt 420

<210> 1472
 <211> 540
 <212> DNA
 <213> Cyanidium caldarium

<223> unsure at all n locations
 <223> Clone ID: LIB190-028-Q1-E1-D9

<400> 1472

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 agtttcagag gagagatggg gatatgctca gcaaacccea caacagcaac agtgccaaca 120
 agtatgtaaa cagtatgcat actatcagag tccagtctgc acttccgtaa ccacacagag 180
 cccatactgg acccaatgct cgaagactgt gcaaaccttt gtcccaagcc agtgcagtac 240
 ttatacccaa tctctacat ggacctattg cagcacctac accaccacta gcgtaccatc 300
 tcaatgcagc aaggccgtga ctacctatac tcaaacctgc tgtgcttatg cncaacaaac 360
 ttctatgca gtcagtaccg agcaatatgt tcaggaaact gtatctgctc aatatacttc 420
 ttactacggc gaatcatcct ccagctatta ttaccgagca gctgctcctc agagatggta 480
 tgacgaacaa tgcacctcat actgctgggt tccagtacag acctatgaaa cttatcaatg 540

<210> 1473
 <211> 265
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-028-Q1-E1-E1

 <400> 1473

 actgaccagt agatcagaga gtacacatgc aagtaggtaa agcgaacggg tgactaaaga 60
 ggtgtgaaag agtgaagat catgaaagca cagaataatg taagaaatgg ttagagtaaa 120
 aaccatacag gaagtaaaag cgggaatctg acaggaggaa agccacattg gcactgagaa 180
 aatgtccaga caagagaagt cagcactggg gaacattggg caatgtacag ggaagtatga 240
 ctactcatg aggagtggag taaac 265

<210> 1474
 <211> 121
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-028-Q1-E1-E11

 <400> 1474

 ggccgccctt tgttgtgtt ttttgttctt ttttttcttt tttgttgctt ctttttggtt 60
 ttttttttgt tttgttttgc tttctggcgt tgttcctctt ctttttgcg ggtttcggcc 120
 c 121

<210> 1475
 <211> 435
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-028-Q1-E1-E12

 <400> 1475

 gagtcgtata aaacaactgt gcgtgtgaac cctaacaatc ccatttctct ttctagtgtc 60
 aaaactgcat cgctacaatt gcattttgtt tgtttgaatg acgtgataac tttatctttt 120
 ctgtaccgac cacttgaatt ttcattgggtg aagaaatgtc gaaagccaca gttgagacgt 180
 gcccaaggct tcaactgtata tcacgcaacg agcattgtcg ttgtattggc attatgtatt 240

gcagctttca gtggatattt gttttatcga cgcacgaaac gacagtcaag actctctacg 300
 acaaagggag actacaggcc tcttcgactg aacatgaata attttaacta ggcaagaatg 360
 cggtttattc atttgttcct gtatttggtg gatattcttc actcaaacac tctatataaa 420
 attctctttt tggtg 435

<210> 1476
 <211> 325
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-028-Q1-E1-E3
 <400> 1476

gcggacgcgt gggaaagagg cacatacggg aaagcagtac aagaagaaag agaaaggaaa 60
 aaactgagta tcaggaagaa aagagggagt agatgacgaa agaaagatca aggaagtaag 120
 agtaagagaa cgagtaatgt gaatgaaagc acgaaagtat ttgaagaaga gagtgtaaag 180
 cgcgtagctt ttgcataatg tctcagcgag tgacagagga agcaaaacga aagacaacga 240
 agtagccagg taagacccga agctagttga tcttatgctg tccacgcgaa gtaaggctga 300
 accagtatct gtggaaaaag atttg 325

<210> 1477
 <211> 281
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-028-Q1-E1-E5
 <400> 1477

cggacgaatg ggcagacgcg tgggatcagg aagaaaagag ggagtagatg aggaaagaaa 60
 gatcaaggaa gtaagagtaa gagaaggagt aatgtgaatg aaagcaggaa agtatttgaa 120
 gaagagagtg taaagcgcgt accttttgca gagtgtcgca gcgagtgaag gaggaagcac 180
 aaagaaagaa aaagaagtag ccaggtgaaga cgcaagcta gttgatctta tgctgtccaa 240
 gcgaagtaag gctgaaccag tatctgtgga aaaagatttg g 281

<210> 1478
 <211> 93
 <212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-028-Q1-E1-E6

<400> 1478

cttgttatca aatttcatgc tgtcaggaat aaaagtctta gtccagtaaa agcttgccga 60
atcgatcatcc tttctactct tgtcgttctg taa 93

<210> 1479

<211> 129

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-028-Q1-E1-E7

<400> 1479

gcattctttg tcttagcact atgcgccgtt gcaattcaag cttctcctct agaggacact 60
ttgggtgect taatgcgggg tggttatcaa tcgcaaagcc aagcaccaaa acctagctgt 120
tgcaagttg 129

<210> 1480

<211> 365

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-028-Q1-E1-E8

<400> 1480

tgggcattgt gggactgaag cgaccttcta tgtgtatggt gcgcttcaat acgaagattc 60
aattaatcga cggctttcat ggtaacttg ctttacgcat tcctttgtgg gtagcagagt 120
tgacggttgt tgggtggagat acgacagcag tccggaaaca gatacaggtc gaacaatggt 180
gagtttcttg aaagtacaaa tgctgtgtcc atgaagttgt ctaattgcgt gagaaaagac 240
aatgttgtgt tatgaagttt cgtaaatact tcatgtgtgt tgtgttgttt tgccacagaa 300
acgatgtttc gtcccttggtg gcgtttgcat tgtccaataa atgacaccat ttgtgtatac 360
aaaac 365

<210> 1481

<211> 427

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-028-Q1-E1-F1

<400> 1481

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aaaacatttt gaagcagacc tgtcgaattt tccaagccca ctagtctata gtgagacaag 120
tttatcattc ttcgtggcgt ccttactatc gaggatgagt tgctttgaat tgcaacgttc 180
tttctcctca gaacttgaac cggagcagac tgttgggtcca gaacaggaca cgacagtcac 240
tccttangaa atatgcttca gaacaatcta taagatggcg actcatctag gccctctgta 300
ttttgccaca agagtgtttg acgagattga atgggaacaa agttctattc acatagttgc 360
tgcaactttg tgccacncaa gcacaggac acagaacacg aaattttgct anttcagaaa 420
caagaat 427

<210> 1482

<211> 368

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-028-Q1-E1-F10

<400> 1482

gcgtttcagg cagtcaaata cctatgatag gttttggtac ctggaaagcg gaacctggtg 60
ttgttggaaca agcagttgat tgtgcaattc agactggata tcgccacatc gactgtgcag 120
cagcttattg taacgaggaa gagattggaa aagtgtttca aaaggtcttt tctagtggaa 180
aatgtaaaag agaggagttg tttgtcactt ccaagttatg gaatacttgt cacaagaagg 240
agcacgtgat tgctgcttgt aagcagactt taagtgactt gggactagaa tatctggatt 300
tgtatctcac gcattggccc atagcttttg aatatacggg acttcccata acaggagata 360
atgcatg 368

<210> 1483

<211> 508

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-028-Q1-E1-F2

<400> 1483

gcgtggctac caacgaaatg cttcgaggag ctggaagcaa gctttgatcc ggaggtaccc 60
gaatgaggca actctttata ctgtctactg aatatatagg taggcttaga agcagcaaac 120
cagagaggaa agcggttaaag catgaaagaa aagaaatccg aaaaagaaga gaaaaaggta 180
agaaagagga ccgaatcagg gtaagaggta gaggagcaag aagagaagag agaattgctgg 240
gtggagtagc gaaacaagag aagggaagta aaaggtaaga aagaggaaag gtttacgaga 300
gaaggaagta gaaagaagag agtgtaaggc ggcgtcataa tagaaatccg aaaggagtag 360
aagaaaagag agagaagaaa gaacagaaga gaaaagccgt actgaagaac gacacaggta 420
ctcgaggaga aaggagaccc acataacgtg agagaatgga cgataacgaa ctacgcaaaa 480
ggatatggta tctgcggtag aacatatg 508

<210> 1484

<211> 364

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-028-Q1-E1-F3

<400> 1484

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gtctgtctct cgatgagtgg tctgagaggg ggatgtttac gaaatgtgaa agttttcaac 120
cacaaacgac ctgcaagggtt gttatctacg acaatgacag gaggcgacca tgaaaggaga 180
gaacttagtc gtcctatgcg tacgcttgat tccgctttcg acgaactttt agcttttgcg 240
caagatccct ggtcaatgtn tcgctctcca tggagtctgt cgcccataag tatggcagta 300
gacacgtgga tgctcgtgt tgacttggtg gagaacgaag atggctttta tgcatacgtg 360
gaac 364

<210> 1485

<211> 277

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-028-Q1-E1-F5

<400> 1485

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actgttggtt tctttgattg ttgcagctat cgttgcacta ccgtggcatc gctttctanc 120
tcttgagatt cattttggag cagtggagat tggctgcttg attgtgtggg attgtaaaag 180
acggacgtta cttgtatgtc caacaacanc aacaacaaca agtcttcttc ttctaaagag 240
gactgtgggt cattgtggaa aaccttttca cgatgtg 277

<210> 1486

<211> 371

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-028-Q1-E1-F6

<400> 1486

gagaggagtt catcatgata aagcccgacg gagtacacag acaactgac ggagagatca 60
tctctcggtt tgaacgcctt ggctacagtt tagccgccgc acaaatgatg actccttcgg 120
tacaacttgc aagcagacta tgagacacga cggaacatt ctttgcaaca ttggtgaact 180
ttttgacctc gggctcctgtg tttgcactgg tttgggaagg aaaacatatt gttgccacat 240
gcagaaagat gattggaaaa accaagccgc ttgattcaga accaggaacg atcagaggag 300
actttggact ggacgttggc agaaatatta ctcatggaag tgactccgtt gatactgcta 360
atccgtgaat c 371

<210> 1487

<211> 494

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-028-Q1-E1-F9

<400> 1487

tgagtcgtat aaacacagga gtatttactg ctgcagataa agctcgagca catatgaagg 60
gagggtgctaa gaaagtaatc atttctgctc cgtccaacga cgctcccatg tttgtgatgg 120
gcgtcaatga agacaaatat acaccggaga atactattgt atccaatgca tcctgtacta 180

ccaactgtct agctcctttg actaaagtta tcaatgataa atatggaatc ctggaaggtt 240
 tgatgacgac cgttcatgca actactgcca cccaaaagac agtagatgga ccttctcaca 300
 aggattggag aggaggaaga ggaattttga ataacattat tccatcttct actggagcaa 360
 gccaaagtgt tggtaaagtt attcctgaac tgaatggcaa gttgacgggt atggctttcc 420
 gtgttcctg tccggatgtt tctgtcgtcg atgtcacttt ccgtttaagg acacaancca 480
 cttatgacga tatc 494

<210> 1488
 <211> 542
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-028-Q1-E1-G10
 <400> 1488

gagtcgtata tacaaaaata agctctatgt tgcataatgga cttacggagt caacagctcc 60
 ttgcactgcc gttcctcatg gagccgaagc cccggtagat cccaattatg gcgccttgct 120
 catcggagtt ccgacgtgca atgtcgattg tcgaggttgt ttctgcagag acaggaaaagg 180
 aggtgcctcc tggaacgcct ggagagttgt tgattaaagg acctcaagtt gtctcggggt 240
 attggaataa accagaagaa acatcaaaag cgataaagaa tggttggctg catactggag 300
 atgtcgcaat tatagattcc agaggttatt tgtatattgt ggaccgaatc aaagatatga 360
 tcattgcttc tggatataaa gtgtatcctc gggaagtcga agatgttctt tatgaacaca 420
 aggccgtaaa ggaagctgcc gttatatgtg tgcccgacct atatcgagga gagactgtca 480
 aggcctttgt tgctctcaac gatggaacca gagtttcggc acaagaactc atagaatttt 540
 gc 542

<210> 1489
 <211> 418
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-028-Q1-E1-G12
 <400> 1489

aatgtcgtca gaggaggaac aagtggaaac ctctactttt gaactttcga gagaagccga 60

ggaagcagcg ataaaagcaa gaaacttaag ggaaaggatt gaaaagtttt tctcgaagag 120
 ttaccagagc gagaggagag ataccgaaga agtgtcttca gacaacgatg gagtgactac 180
 cttcgatgag tcttattgtt taagagacca acataacttg ttagaagcta tagaacagtt 240
 agaaggtgct gcaagagctt tggaagaagt ttctttggag tcttcaaact atacgcagca 300
 acatcttgaa gaacccaaat atgttgccaa gcccgctgtg catttagagg aatctgtaaa 360
 gagccagtct acaacataag aaagtgtgac gagtttggag atatctgact atgattgg 418

<210> 1490
 <211> 345
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-028-Q1-E1-G9
 <400> 1490

ggtgtggcta gtttgaatag gacagccaat agcagatggg ttgacgttaa tgataaaaga 60
 gggagtaaag ccaacaagag cagagggaat gatgtataaa gcagggccag tagtaacatg 120
 gatgttatcg gggctacgat ggagtgtagt accaatagga gacggaaagg tggtagtgga 180
 tatagaagtg ggaataatag catggatgag tataggatca ttgggagtat atggagttagt 240
 agtacgacga tggggaagca gttcgcagta cagcatagtg ggaggtttag gaacgtgagc 300
 gcacatggta tcgtgctaata taggaatggg actactgatg ctatg 345

<210> 1491
 <211> 460
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-028-Q1-E1-H10
 <400> 1491

cgcgtccgca ancatcaagt ggatcatccc acgttggttaa agatagactt gtctcaaggc 60
 agcttttaag tactccaaga ctgtgacaga gatttagaat gtgatcataa taccaagttt 120
 cagttggaac ttattcagta tggctctctt tcacctgggtt tttggacgag agaaaatgtt 180
 ctgctcttct atttgagct cgtgtcaggt gtattcataa gggacactct ctaccttttc 240
 tacaacaaag gtgaagaaca tttgtttgcg agtttaaatgc tgttgttgga gacacaagtt 300

tcactgtatg cagacataaa aacaaactgg gagaaacgac actttatcgt ttgcctcatc 360
 gtcaggctctt tgtgtgagga atatcaacga cagtattcag agctatgttc accgaatgaa 420
 agcacganag atatgctact agtaaacaga atgtatcaaa 460

<210> 1492
 <211> 496
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-028-Q1-E1-H11
 <400> 1492

ccacgcgtcg cacgcgaatc atatttcaga aactttccaa gcaaaaagct gcgaaaccac 60
 gtcgcatact ttcgccaacg taggcaagag atgaaagtct tcagcaagca ctaggtcaga 120
 tatccacgtt tcgaatttac cagtatcgga taacaatagt ttggtttcta atagctgcac 180
 acgctcttgg agtttctgaa ccttgtgcat tatttcttca agtggttcgga ctttggaaacg 240
 agttggcact actgctttct ctccattgga taccagttga agaagcatat tcagatgttc 300
 attgagtttt ttcgacttc tttttgttgc aagattatgt ttgctcgtc tcgtatctgt 360
 gaaggaagct tggtgggaca acatcaacgg aaatggaaga aagaatccgt tggttaattca 420
 actgattttt ggatggacga cagcacattt gaaagcagtt gctctgtaat atttgtcttt 480
 gagctagaag aaaaca 496

<210> 1493
 <211> 513
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-028-Q1-E1-H4
 <400> 1493

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 aatatttgga gctaaacgat tcgttgcagc agccagtgga ttcattctgt cncgacaagt 120
 ggctgtttat tgcaacccca ctgttggaag ttgcttgtag tgatgggcag cgaattgaca 180
 tgattccttt gaacaaagat ataaaggaat tgtttttctc tactttaaag aagaactttg 240

agtcgaacga agcgtcatgg gactgcactg tagttgacac cgcagttgct gtttttatcc 300
 agtattatga acagtgcgtg gaacagtact atctagcaag caaagattat gagctacctg 360
 gttattccaa agtaaaacag attcggcgta tgattgaaga tgttctacaa atagagaagg 420
 aacttgcgaa tatgcgtcag acccttggtg gcgttcggag tcgtctttgt acctttgaag 480
 ctgcatcacg cagcgaaact cgtgtgcaat ggt 513

<210> 1494
 <211> 107
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-028-Q1-E1-H5

<400> 1494

gatcagagag taacacatgc aagtaggtaa agcgaacggg tgagtaaaga ggtgtgaaag 60
 agtgaagaa catgaaagca cagaagaatg taagaaatgg ttagagt 107

<210> 1495
 <211> 282
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-028-Q1-E1-H7

<400> 1495

tttgcgaatc tcattcctgg tcacgggtgga gtaacggatc gaatggattg ccaattggtg 60
 atggggtttat ttacttatgt ctatttgatc aattttgtgc ttcgaaatac tcctgatggt 120
 ggtaatttga tgagtttagt gttggagttg agtactgcgg gacagctgga actttttacag 180
 gaactttatc aactcttacg tgagaaatcc atacaagcgg atgtattgca gcaggatgatg 240
 aatgaatcga gtacttagat agtctcaacg gcgtgatgtg ta 282

<210> 1496
 <211> 223
 <212> DNA
 <213> Cyanidium caldarium

<223> unsure at all n locations
 <223> Clone ID: LIB190-028-Q1-E1-H8

<400> 1496

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 actggcaaag tagtgcgagg tctgtctcnc ctttcattgg ctttagctca cgtagatgaa 120
 gacgaagatg gaaatattct tttcaaaccg tggaaagaaa cagatttttag aaccactagc 180
 gatccttggg ggaaataata acacttgggg ttcttcgtga cac 223

<210> 1497
 <211> 552
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-028-Q1-E1-H9

<400> 1497

ggaagcaatg tggccgatgg tgctttccca tacgagaaga ctgcttccaa gaggctttta 60
 tcatactgga atattaaaac agacaaaatt tatcaaccaa gaacagtcct caaccacctc 120
 tagtatacct agtgccgagg acactcctct ccatatcgac gaaagctgtg tccagcgctt 180
 gagatatgtt agtagccaaa ggggaggaaa acctgttgct ttaagagtag cagtggatag 240
 tggaggatgt tcaggctttc aatatacttt tgagttgacc gaggaaaagc cagcagagaa 300
 cgaaaccgtg gtggaaagaa acggttgcaa agtatatgtg gacgatattt ctctcccgtc 360
 tttaaaggga agtacggttg cttttgtgga agaattgatg agtagttctt tccgagtgtc 420
 gaacaaccct ggttcggaag gaggatgtag ttgtggaacg tcgttttctc cgaaaatgtc 480
 atgatgttac catttggtgtg tgtgtgtgta tgtatgcgat agaatatata tgaggcaaga 540
 acgaagaaac tg 552

<210> 1498
 <211> 532
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-029-Q1-E1-A1

<400> 1498

cggaattccg gaatcaccac gcgtcggcgg acgcgtggga tgatacacgc atcatcgttg 60
 cacaagtgga tgcagataaa gacaaagtat tatctcaaca gtttgaaatc caagggttatc 120
 ctactatcaa gttgttatta cctcgttcca aaagtggaaa gaagaatgtc tccgatgcgg 180

tagtggaata cactggggaa cgtactgctg ctgggtctcgt cgcgtttctt caaaaccata 240
ccaacatttc catcgcatg gcaccggtag aaagttttgt ggtggagttg accgatgaga 300
atttcgatcg agtcgtattg gatccgtata gtcattgtgtt ggtagaattt tatgctcctt 360
ggtgtagtca ttgtaagatg ttgagaccgc agtacgaaaa agttgcaaag acttatcgcc 420
atgtgaaagg actggtgaat gcagctatcg atgccgataa atgtggaaaag attgcagaaa 480
agtatcgaat cactggggtt cctacattga aataattttc agctgggaaa ga 532

<210> 1499
<211> 426
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-029-Q1-E1-A11

<400> 1499
aggaggattc tgcagtaaac ataaagaaat ggctagcaag ttctgaatcc tcccctttgg 60
tgatcacgtc ttatgaaata gtaagtttag tacattcaca ttcctattct tgttgaactg 120
ttggaaagat tcgtagtgat gtagaatatt ttcaacgata tcattggagt tatttggttt 180
tggaacgaagg acacgttatt cgaaatcatc attccaaaac cgcaatagcc gtaagaagcc 240
tcacagcaga gcatagactt atattatctg gtactccagt acaaaattca gtcaaggatt 300
tgtggtctct ttttgacttt ttgattcctg gttttttggg cgatgaagct tcctttcaag 360
aacgcttcgt acgacctata ctcaagggaa agagtttatc ggcggaacaa aaggacagag 420
aacaag 426

<210> 1500
<211> 411
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-029-Q1-E1-A2

<400> 1500
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acagtttgaa atccaatggt atcctactat caagttgtta ttacctcgtt ccaaaagtgg 120
aaagaagaat gtctccgatg cggtagtggg atacactggg gaacgtactg ctgctggtct 180

cgtcgcgttg cttcagaacc atactaacat ttccatcgca ttggcaccgg tagaaagttt 240
 tgtggtggac ttgaccgatg agaatttcga tcgagtcgta ttggattcgt atactcatgt 300
 gttggtagaa ttttatgctc cttggtgtaa tcaactgtcag atgttgagac cgcagtagca 360
 caaagttgca aagacgtatc gccatgtgac aggagtgggg attgcagcta t 411

<210> 1501
 <211> 432
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-029-Q1-E1-A3
 <400> 1501

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 agcttgatg aggcaatcaa tctttggtgt agacaaggag tgggtgacaa gtctttttgt 120
 ggtggtgagc aacctggttt agcagatttg gttatgtttg gagtcttgcg ttctttaaaa 180
 tattatgacg tgttcgaaga tattcagacc aatacggata tgcatttatg gtatcataga 240
 atgcacgctt tgggttggtga ttcctcaatg atnacaatag aagaatgaac agcaagtcgt 300
 tccttgggaa aatatggacc tatattgcta tcaaagtaag agaagactgt tcagatgcct 360
 cgtctaattc ccataaaatc aatatgcaat ctgtgagaat aacgaaatcc gtgtctaata 420
 cattccgttg ct 432

<210> 1502
 <211> 505
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-029-Q1-E1-A4
 <400> 1502

ccgggacgac aacgcgtcgg actttgccaa aattttttta tacaaagttt gcttctcggc 60
 aaccaacctc cttccgacaa agaatttgaa gatgttttcc tcgctatcca gttacagtat 120
 aagtgttctc atcctggcct gaacataaga agcgatagcc agtgaaaaag gcagaagcaa 180
 agatacgaac taagactgaa ctactcgaat aagatttgca ctgaaagttg gtcaagtttc 240

ttcgcaccaa tgtttcgtcg ttctactagc aaagtttgcc gaggtcaaag taagttgaaa 300
 agcacaacca caagagtagc gggaactagt cgaaacggaa gacagcttgt ctttatggct 360
 tcttcttcaa tttttccttt tcttcttgag acagaagtct tccaaaattc cctctttcct 420
 ttctctcact atatctatcc actaaaaagg aagaatgggc tcttaacatc aacgagaact 480
 tcaccaaadc cttcactaca tcgac 505

<210> 1503
 <211> 120
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-029-Q1-E1-A5
 <400> 1503

gcggaagct gcgaggagga cagccacatc tggacactga gcatagggtcc aaacaagata 60
 agtcagcagt ggggaagatt gggcaatgta catggaagta tcaccagta atgacgagtg 120

<210> 1504
 <211> 292
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-029-Q1-E1-A6
 <400> 1504

cggattaccg gatcaccacg cgctggccca cgctccgaa aggatttggga gaatattcga 60
 ggcagcagaa tcgaagctgg attcttccag taagacatgg agaagttcgc aaaagagtat 120
 gatgaagaca tgtaacatca ggtaagtata tacaggtaag tataaggtttt ggatttggaa 180
 gaaacaaggt acttcaagta gtcttctttg ttgtgtatag gatagagcat aacttctaaa 240
 cttatttatt tgacttcaat tgaattataa taaaacattt tttgactaat cc 292

<210> 1505
 <211> 592
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-029-Q1-E1-A7
 <400> 1505

accacgcgtg cgactaaata aggctctcga tagagatgag gaagttatth tagcttatga 60
 gatgaatgga gagaagctgc ccagggatca tggatatcct ttacgagttg ttgttctctg 120
 ctatgttgga gctcgaagtg tgaaatggct aactcgaatt atctgtaaga tggagtcttc 180
 cgatggatat tttatgacga aagattacaa atatctgcca tctaataatgg acttcaataa 240
 tgtggattgg agctctactc ctctatcat gaacttgtct gttcagtgtg caatatgtga 300
 tccacttcca gatacaaagt tgtctccagg cccttataaa atccgaggat atgcactaac 360
 aggaaaagga gaacatatta tgagagtaga cgtatctatt aataactcca aaaactggca 420
 actggccact ttgattcaag gagacgaagt tgcaagcaaa gaacttccga aaagggtcac 480
 ttctggaatg aacggatggg cgtggcgtht acgggaattg gtcgtctata tgaagcgacc 540
 actggttcta cagctagaac gatagattct gcctgtaata ctcaacctga gc 592

<210> 1506
 <211> 283
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-029-Q1-E1-A9
 <400> 1506

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 gttatttatg aacttggact ctattgacac aggaattaat gtccttttg acccgtttgc 120
 agacgcctca cgtggagagg acgcagcagt aaccanaaat atagtgcata ttcgcttgca 180
 acaaaaaaac ggccgcaagt gcttgacgac cattaaaggg cttgacacaa aattggattt 240
 gaataaaatt acaaaggcct tcaaaaagga ttttggttcc aac 283

<210> 1507
 <211> 153
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-029-Q1-E1-B1
 <400> 1507

aaaatgtata aattcgtca aataaaaaat ctaatgaaca taataaaaaa atctgtgata 60
 caacagaaag ataaagagaa agaagttaca aagataaaac aatgtaggct caaaaatcaa 120

gtaagaaaaa acaaaaaagc gcccaagtca cta

153

<210> 1508

<211> 492

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-029-Q1-E1-B2

<400> 1508

cagtacgcgc ggcattccgg gatcaccacg cgcccgcgga cgcgtggggg aagatgggag 60

actcagacta ttcattttct cttacgacct ttagtcctag tggcaagttg gttcaaatag 120

aatatgcgtt gaacgctgtt gctgccggtg ctacttctct tgggattcga gcgaaaaatg 180

gggtcgtgat cgcgacggag aaacgtatgc cgtccattct tatggaaagt catactttag 240

aaaagatatc ttttatttcg gaaactacag gaatggtgta ttcgggtatg ggtcctgatt 300

caagagtatt attgagaaaag gctcgaaaag ttgctcaaag ttactatcaa acctataaag 360

agcccatacc agtcgttcaa cttgtacgag aaacagcttt cgttatgcaa gaattcaccc 420

aatctggtgg cgtaaggcct tttggtgtta gtttggtgat agctgggtgc gatgaacaag 480

gacgacacct gt 492

<210> 1509

<211> 375

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-029-Q1-E1-B5

<400> 1509

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gactcaagtt tctaagactt ccgactactc gagacttgca agtctccgtg tctatcgcca 120

aaaacttttg gatttgaagg ctattgctga ccagatggat gccttgctgg aagaattttt 180

tgattccgat tttgtcgaaa aagctttgtt tagagaggac aatgggagca aggatattgg 240

tccttggtgt agtttggtatg acctgaaata tattttcgaa ccttatcttc agagtttgga 300

tttacctaga ctatctgtgg tagttttttg acaggcacta caaatgtgga acgtggcttc 360

atgctcggat ttgac 375

<210> 1510
<211> 443
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-029-Q1-E1-B7

<400> 1510

ccacgcgtgc gcacagaata caacactcgt atgctcctac aactgtgcaa tctctctcct 60
ccactactac tacgacaacc agtggttagag cctgtgctac aacaaggaat ccacgtatga 120
atattcaacg aagaatattg gaagctggaa gaaggctact tcataatgag tcgggtccta 180
gatattcgac tcgtttgaac tctcggagtc tccacaatac attggcaacc acaagaagaa 240
atcgtggacg gaaccatcga aatactacaa gtaataatag tgtggatggc aataatagtt 300
atcctagtgg tggtgacttt tggatcgggtg gtggttcttc ctctcttctt cgtcattctt 360
tgaatgcgtg gattgattat gttgctcaag tcaatccttg gttactttta tcttttcatg 420
atggcgactt tacagcggat gac 443

<210> 1511
<211> 285
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-029-Q1-E1-B8

<400> 1511

cagcgggaca gagaaaataa attttttaag acagaagggc ttgacggatg aagagataaa 60
ggaagcgttt cacagagctg gacagatata tccagaagat agtttttctg gaaatgtgga 120
acgagagaag tggaattctc ctccataggc aacagcaaca ccggataatt taccacagac 180
tgccgtacga gacgagagtg tctccaatca acaggctgcg cgagcttcta cgggcaaagt 240
atcatcaaac agtggttcctt cgaatccaac gacagtgaca caacc 285

<210> 1512
<211> 476
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-029-Q1-E1-C4

<400> 1512

cgtcggtgtg ttcgtgtgat tggttggtaa aaaggcgcct attttcaaag agtccaacct 60
attgagaaaa catgaatccg gaatatgact accttttcaa gttgttgctg ataggcgact 120
ctggagtggg aaagtcttgc ctcttggtgc gttttgccga cgacacttac aacgagagtt 180
atatatcgac gattggagta gacttttaaaa ttcgcacgat agaactggat ggaaagaccg 240
tcaagcttca aatatgggat accgctggac aagaacgttt ccgcactatc acttcttcat 300
actatcgagg tgcacacggc atcattattg tgtatgacgt taccgaccag gaatcgttca 360
acaatgtcaa gacctggttg cacgaaattg atagatatgc gaatgagagt gtgaacacac 420
ttgtggttgg caacacgaat gacttgacga cgaaaaaagg gtgtagacac tgcaac 476

<210> 1513

<211> 338

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-029-Q1-E1-C6

<400> 1513

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tgagggtgtg ctattcaccg acgcanatgt tgagttgccg gancataaaa aagacgctga 120
atgctgctat tcatttctga actanggata naaataatgc aagtattcta naatttacan 180
cattcttgca cgacaatact gctaaggat tttactgaac tcgccagaca tttcttgggg 240
ctgaacatca aatactaatt gaggtatgta ataagttttg ctgcaaacgg tgtagtccca 300
acagacacat ttgggttatt tatttcggtg tttacatt 338

<210> 1514

<211> 374

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-029-Q1-E1-C8

<400> 1514

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tcgaaagaac gtgctgtgaa gtgagagaac gtacgagaaa gccaaagtgag gaaaagaagg 120
 caagtagagg gcggcccgag aaaggagagg gcgtaagacg tgatacagag taggaagaaa 180
 agagaagaga gctagaaagg aggtaaaaga agagtaaaag gactagaaga ggtacggaat 240
 tcacgaggaa ggagcgtgaa ggaaggagga atcccaagta atcgaggag aaaaagcttc 300
 ggtgaaagcg tgaacggatt ttgtacacac tgcccgtaa gttctggaag tgtgctagga 360
 ataagcagga gaag 374

<210> 1515
 <211> 436
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-029-Q1-E1-C9

<400> 1515
 gatacatcac ctaaagaaaa caaaagagag aatatataaa tgggtcgagt gagaacgaaa 60
 acagtaaaaa agtcggcccg agtgatcatc gaaaaatact attccaagct gactctggac 120
 tttcaaacga acaaaagaat atgcgatgaa gtagcactca ttccttccaa acgactgcgc 180
 aataagattg cagggtttgt aacgcacttg atgaaacgta tccaaaaagg acctgttcgt 240
 ggaatatctc ttaaactaca agaagaagag cgtgaaagaa gaatggactt tgttccagaa 300
 gtttcagcta tagatgtggg tgaagtcaag atcgatccag tgaccaaaaa tatgttggaa 360
 tcgttggggt ataaaaatct tcctaattgtg gtggtggaaa ctggagtaga acccaagaaa 420
 tttgcaccaa ggcct 436

<210> 1516
 <211> 453
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-029-Q1-E1-D10

<400> 1516
 gtccaccac ccgctccgac acgcgaccgc ccacgcgtcc gtgcacaaat ccacggttcg 60
 tctcgagggc ttatcttggg ccagcaacgt ggacatcttc cctgttgtcg gatatgccta 120
 actcaggacg gttcaacaaa gtggtgtcga ataaaatata ttttccgact tgtatatgca 180

agggtttgcaa aaagtgtgaa gacagtcaca gatagtcgtc gcttttctcc aataaccccc 240
 acaaatacaa caagtaaata ggcagttcac aacagcaaga ggaataacgc agtaattctc 300
 ctgttccagc acagttgaat tactgctcat tcttaaatac ttgtacttgt attttgagac 360
 ggtgttttaa gcgaagctcg ttacttgcgt tccccttcgt cctttgcaac gtaaaatgtc 420
 ccaggaatat gaaaatttcc gttcatgttg ctc 453

<210> 1517
 <211> 489
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-029-Q1-E1-D4
 <400> 1517

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 aaactttcag aagccgcaac cagtattgcc gaaggagata ttctcaatga tttgggttcgt 120
 cgtcaacaag cttggaattt gatgcctgtt caagcaatat tttctggaat ctatcctgca 180
 caaatacttc aaggaccctt tgctgacatg atacattttc cttcgtgggtt aggcaagaat 240
 tccactcgtt ccaaaaacaa acgtctagct ttggagcttc aaatgcgaat gagtactaac 300
 atatcgggct ctttcaatgc ctttttgatg gaatatcttc catgtctaca aaccatatta 360
 tcggctcctc ttgtgaatag caaagaaggt gtttcggaag tgatagataa gcttgatgca 420
 tattacctgt ccaaagatga ctgggacact ttgatgtcgt tgagtctaga gaaaaatgaa 480
 atggacaaa 489

<210> 1518
 <211> 459
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-029-Q1-E1-D5
 <400> 1518

ccacgcgtcg gacataaatg ccaagttcac acagctcgga ccaaatcttg tgcagctttt 60
 accaacattt tgctaacttc ggttgatcct ttaggaacaa taccaagctt ctcaagggcg 120
 gaaactgtta tatgtgtgaa ataatgtcca actcgagtat gacgaaaacc tttgatggag 180

aaacctgctt tcaacggata ataccaaggg agctctgagt attttgaggc atcatagtag 240
 tcgagaactt caaaacctgc ttcttttaaa ctttggataa cttgatcgaa agttgccgtg 300
 tctggcagcc catttccaac ctcgactgca aattttgcct cacgatgttc cttattttga 360
 gggtcatact tatcggttac gcaccattca taccocgcga agcagcatcc atgtttaatt 420
 actctataag cctctgaata aacttttgtc ttttccata 459

<210> 1519
 <211> 589
 <212> DNA
 <213> Cyanidium caldarium

<223> unsure at all n locations
 <223> Clone ID: LIB190-029-Q1-E1-D7

<400> 1519

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 gctggtcaag atggccttgt gcaagtcaac aaacatagaa aagtaaagag attgcaagaa 120
 gataatattt tgaatagagc actatcacia ccaggagatg tatttctgtg cttttgcaac 180
 atccagttgt tggatgaatgc agaaagagct attataggaa atattacttg tccagaaagt 240
 atcgaattgt gtcgtctatt agctggacat atagcggttt ggttcgatga acatttggat 300
 gactttcggt tggaagctat cttgggagca ctattgtgta cttgttattg tgagtggaa 360
 cgttttgaag gagaattggg ggtacaagaa tggaatgaat tggagaagat atcttcctta 420
 gataactgga agcttgtgct tggatcaaga caaagagtgg ataatatgtt acagcgagta 480
 cacaagctga cgagcatctt gtccttttta tactcgggcg aacaaccgag agtggactat 540
 atcgttgctg aggatgaagc angttgggac aagttgtgga gaggaaaac 589

<210> 1520
 <211> 622
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-029-Q1-E1-D8

<400> 1520

cggaattacc ggatcaccac gcgtcgggct ctgtgtgggt ttcttcattg aattctgaag 60

gctgccgtaa cttacagcag tctttgttta tcatggagag cgagacagtg aaaaatgata 120
agctagctaa actacaaaga atggctgtga atgttcgaac tgggtgggaaa ggtaccgttc 180
gaaggaagaa gaaggcagtt cacaagggca caccgacgga tgataaacga ctgcaaagca 240
ctttgaagcg gcttgggttta aaccaaatac ctggaatcga ggaggtcaat attttcaaag 300
acaacgggca ggtgatcaac ttactaccc ccaaagttca agcagccatc ggagcaaaca 360
cttatgtggt atcaggccaa ggggaaacaa agtcccttca ggagctgctt ccaaagtac 420
tcaatcagtt gggttcggac aatctagctc aaatgcgctc tcttatggaa agtctcagta 480
caacagacga aaagggcgaa ggcacagaga atggagacaa ttccaaagaa gacgatgata 540
ttccagagct tgtggagaac aaaacctttg accagttgga agaggagaag aatgtgaaag 600
aaacagatgt ttctgcgagc tg 622

<210> 1521
<211> 386
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-029-Q1-E1-D9
<400> 1521

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gatgaaatga cggaaaaagc gaaacaagct cctcttcgc cggtggaaga actttatcgt 120
gacatttatg tggaaggaat tgaacatggt cgtggtactt tggatgaaca tggacttggt 180
aattacttgg cataaataat tcccgatagt ttctctatct gatatatata tctccatggt 240
gttgttgaat gtaaaagtaa ttttagtgca agtttctgca aaaaaaaaaa aaaaaaaaaa 300
aaaaaaaaaa aaaaaaaaaa aacacaatt tttttaaca aaaaacacaa aacacaaaaa 360
aaaaaaaaag gggggccccc cttaaag 386

<210> 1522
<211> 385
<212> DNA
<213> Cyanidium caldarium
<223> unsure at all n locations
<223> Clone ID: LIB190-029-Q1-E1-E11
<400> 1522

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 gagatggcat cccttgggtc ttctgagatt gttgcatatg taaagactgg tgagcccatg 120
 gataagtcag gtgcttacgg tattcaaggc atangcgggtt ctcttgtaaa ggtacgatgt 180
 tgagggttgtt tatattcatt atttatcttg atgaacaacc agagtgttca tggctgttat 240
 ttcaatgtca tgggattgcc tatgcatcat ttagccaaac aactagcgca actgtgtcaa 300
 cgagaagagt tttgatagta gtgacttgag ccaactttta gtttcattga ctagttttga 360
 tgtatcttgg catttttagcg ttaat 385

<210> 1523
 <211> 549
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-029-Q1-E1-E2
 <400> 1523

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 tgaagagttg ccaaaagtat atgcagcttc caactctttt gttttagcca caagaggcga 120
 aggggtgggca cggcctatta tggaagctat attttatgaa cttccagtca ttgccaccaa 180
 ctggagtggg cataccgaat attttgggga agatacgggc ttcccagtta gagtagaacg 240
 tcttgaaaag tattctggaa acgaccaga aatgaaacct tatgtaggat tacatttggc 300
 agttccttct atttctgact ttaggttgaa aatgagacaa gttatgttag atgtagatac 360
 tgttcgttct cgagtactca aagcaaacg agttataatg aataggtaca atcctgaagt 420
 tgttggggat gaaatattga atcagtttat tcgaattaag aagatgctac tcgcagggtc 480
 tgtgcaaaag gatcactgag cctgagactt gctanggacg accacctctc gttgccttca 540
 tttatatat 549

<210> 1524
 <211> 569
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-029-Q1-E1-E4

<400> 1524

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agattggact atgacagtgg catggatccc ttcaatttgt tgcataatgag tctgtaacgt 120
tggaatatat aaatgatagt tgaccaaagt tgaagttccg agcttcaaaa ggattgaaaa 180
ctttaaaccc tgtaagttac actttggcaa actaaaactt tatgctactt agcanacgaa 240
atcctattct aagtatccac acttatgtcc accacgggtc agactctttg cggaaatctt 300
ttccgttaaa gtcttgaaaa caatgtttcc tcccatccac agagccaagg gaagcagaga 360
gctggacctc ggactacgtg gctctactgt cataatgaga gccataacaa taacagataa 420
acggactctc tctgtcttcc caaggaacga ctgtacgaaa gcagctgtcc attctgaaat 480
ataaccaagt aatatgggtt cttcttgca ccttgagcca atttccgatt tgtaggaatc 540
cttgccttaa tataaaatca tccttcttg 569

<210> 1525

<211> 578

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-029-Q1-E1-E7

<400> 1525

ggaataccgg aatcaccacg cgtccggacg acgaccaaga tcctagagcc tccttgctta 60
tgcagccggt atctgacaaa tacttgcaaa agagttcaga cgaaatagtt agtttgaatg 120
gagttgacgt ccataaagaa attgaggaac gactagatag ggctttcaac tacgaactta 180
gacttttaag tggtaatgcc aacagagctt tatcgttgga aatatctcgc ttacttaata 240
ttccactggt ggacgctgaa gtcaagcgtt tttcggatgg agaaatattc gtttctatca 300
aagaaaatgt tcgtggaaaa gatgtattca tcatccagcc aacttctcct cctgtgaatg 360
acagtctcat ggagctttta attatgatcg acaccctgaa gagagcgtct gccaaacgta 420
tcaccgcggt cattccttat ttccgatatg cgagacagga taggaaggca gctccaaggg 480
ttcctattac ggcgagactg gttgctgact tgatatccac ggctggtgcc tctcgagtgt 540
tggcgttga acttcatgct ggacagatac aaggattt 578

<210> 1526
<211> 131
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-029-Q1-E1-E8

<400> 1526

ggattaccgg atcgaccacg cgtgcgacat gttatcatcc tcataatggt tcgaagttct 60
atgtgagtct ttctacgaga cctcctgttt ctccatctat cttctgctgc ggggagtgag 120
aacggtcaac c 131

<210> 1527
<211> 387
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-029-Q1-E1-F1

<400> 1527

ggaattccgg gacgaccacg cgtcggccca cgcgctctgga aattagcgtt tggtttgtaa 60
gtcacgagtg tatttggcac ggtgttcac tcgtccagga gaaaattcat ctgtcgcgtg 120
gctaattgaa ttcatttaga agtagataga atatcgcaac atgttgattt atgagaatga 180
attctaccgc aatcagtcct agtctcctct catccaaaac tttcgtttag aagtcacata 240
gttgtaccgg aacgaaagtg aaatcatgct tgtcctagtt cgcttgtttg gaataactca 300
agaaacaatt gcaccagata aaactctcta atagaaatac ctttatattg caacagaatt 360
ccaatgaaca atacacctag tgaagcg 387

<210> 1528
<211> 414
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-029-Q1-E1-F11

<400> 1528

caaacgcgac cgcccacgcg tccgcttcaa gtgcggtccg cagccttcct aatgtcaact 60
gcatcaacga aacaagaaaa cgaagagcca caagaagaac agaaaaacga gcaagaagat 120
gagaaaacaa ctttgaaga agactattct gttccgttca aacctctagt aaccttggac 180

gaagtgcaag tgacgacggg agaagaagac gaagaggtgt tgtacaagaa tcgagccaaa 240
 ctgtttcgat ttgataaaca aggttcacag tggaaggaga ggggtactgg agacataaag 300
 atattgcaac acaaggaaac caagaaaatt cgtttgctta tgcggagaga aaaaactttg 360
 aaaatttgcc tgaatcatta ggtcaatcct agtattcagc tggaagaaaa tgtc 414

<210> 1529
 <211> 429
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-029-Q1-E1-F12

<400> 1529

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 ctttccaatg attttactaa gtggagctgc agaaaactcg caaatagatc gtggtgcatt 120
 ccaagagtgt gatcaacttc gtgcagcagt tccacatgca aaacaagtat ttcgagttga 180
 cgatatcaca gattctgcga gatttctttg tcgagcattt catgtggctc gaagtggccg 240
 tccaggaggt gtatacatcg aatttccttc caatgtactt catcaaaaac tggaacgaga 300
 gaaagtggag gaattgttgt ccttttagcaa agagtttata tcttctctc ggaatatgcc 360
 agttccgact gcaacagtcg ttcaacaaac tgttcagttt ctaagaaatg ccgaaagacc 420
 tcttgttgt 429

<210> 1530
 <211> 454
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-029-Q1-E1-F3

<400> 1530

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 tgctgaaact tttcttggtg tagatgtggg gtctctctgc gtcggtttag ccattgcaca 120
 acatggaagt agggtagctt ttccgttgtc ttggtttaaa cggacggggc cggttggtga 180
 cgcaagaact gttcgtcaga tttttattga caacgggtgtt caagtttgtg tttttgggta 240
 tccccacaca ctttctgggtg gtgaaggcga aaattgccgt aacgttgacac tgtttgtgaa 300

aggtttgcag gaaaacggtg cgttttttaa cacgcaagtt catagctgtt tattctggga 360
 cgaaagattc tctacgcaag tggcaaagcg agttgtttta cggagtaaga cgaattggag 420
 agagttacga gatcaccaaa ggacagaatg aaaa 454

<210> 1531
 <211> 234
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-029-Q1-E1-F4
 <400> 1531

agctttaga ggaatatgct gccaaacaaag acttggttctt tgaaaactat gcacaggcac 60
 ataagaaact tagcgagttg ggagcagttt gggtaaata agcgtcgttg tggttgttgt 120
 ttttgtgggtg gtgctgaaaa taaaaaaagt cgttgttggtg cttgtctaaa aaaaaaaaaa 180
 aaaattaacg tatgcaaaca aagtacataa gagaagataa gcaggatcat tttc 234

<210> 1532
 <211> 376
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-029-Q1-E1-F5
 <400> 1532

aattctccaa ctgttatcgt agaaaaaaga ctctaggttg ggttgaacct tttctgtgga 60
 gatggaacaa acaacttgct ataaataagc agagaagagc tttggggtcg aataacgtga 120
 gcattctatt tagtcttgctg gtgttggaag atagtcctgg gtcgtcttct gtttctacca 180
 gcaacgacgt tcataacggc aaagaaaaca cactgagtct agaacagctt caactgaata 240
 aggaatatga agctgtagta acaaaagtaa cagactatgg cgcctttgta gacatacgtg 300
 cagtaaagta cggcctactg catgtttctc atatgagcga ctcatttctc agagatccct 360
 cttaaactcg ccacgt 376

<210> 1533
 <211> 585
 <212> DNA
 <213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-029-Q1-E1-F6

<400> 1533

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acaaggaaag ataaatgggtc gtcaaaacag aaacctgtag tttttcaggt ttccgcattct 120
accccggaag aggcactcga tttgtgcgcg gggatggcaa actcctcatc tttagtaacc 180
gcaagtgcga atcctacttt catatgcgta ggagaccggc agagttgaat tggactcagt 240
tgtatcgaag aatgcacaaa aaaggacagc aagaggagac acagaagcga cgtcgtacgc 300
gcaaagttgc tgctgtaccg aaaccgggtg aaggcgcgctc gttggaagtg atcaaagcaa 360
agagaacgca acgcccggaa gtccgaaaaa ctgccaaaga agcagcgttg aaggaaatca 420
aacaacgcca agctgctgcg gctggaaaaa gaaaagggtg aagaagagat gcgacggcag 480
caacgtccaa aagaacttct gcaccacctt cgaccagtga gaaaaaacct gctcaagtgc 540
ttgtagggtc acganagaga taaagaagag agtatggcac tcgtc 585

<210> 1534

<211> 601

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-029-Q1-E1-F7

<400> 1534

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ttgagtgaact ttgtatccga ggactccgat gctatagcgc ctacactaaa aaaagctgca 120
aggaatattc cacattgtag ttttaaggagt gcataatata tcataggagg ttactgtttg 180
gttctgtctt gcaaagctaa atggagcagt tacagggtgt actcctactc actcctagtt 240
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atggaaatct tagttgggtg ttctgctgtt ttagaatgcc tcctaacaat atgcactgtc 360
aagatgtata ccataaaatg actacacagt tacataaagg ggtctcttct ggtgccttcg 420
acttgagtca acttggtgctt cgtagttgat actttgtgat tctttcaata gccagccaag 480
gtaaaagtat acgtatttaa acaagtggta gtgctgaaag tgtcaaattg gcgggcaata 540

agaaacactg aagaagacct tgttgaatgg agcagtttac acaacaaaaa gttctgtgct 600

c 601

<210> 1535

<211> 64

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-029-Q1-E1-F8

<400> 1535

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tgat 64

<210> 1536

<211> 402

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-029-Q1-E1-G1

<400> 1536

ccgggatcac cacgcgtcgg acgaaaagga agtcaagtga aactcgttcc agaagtgcc 60

ttgagagcca ctcatatgga aaatacttat gatttcttca agcctaattct cagttcggaa 120

tatccaaccg tggatggtgc gaaaaccatc agctgttatc ttcgggcgtt ggatacttgt 180

tatggtcgtt tcacacgtcg tgcggaagaa ttgttgaagc aagaaaagt ttcgttgcag 240

gatatcgact acattgtatt tcatgcgcct tttcataaga tggttcaaaa gtcttttgca 300

cgtttgcctt tcaatgactt tcgacgcgat ccagataaca aattattcga gaatgttcaa 360

gcgtntcgga atatttcgat ggaagcttcc tatagtata aa 402

<210> 1537

<211> 456

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-029-Q1-E1-G10

<400> 1537

gtccaccac ccgtccggag ttgcaaata cagaaataa gacaagtccc gttgtcgatg 60

agaacgaggt gagaaaaaga aatatgtttt gcatcctact gaaaacttgc aggatcatat 120
 tgttttggaa atgaccgaca ttttttctgt ggaaggatgt gtcattggaa acaaacctca 180
 tgttactcga attggcgatt ttgaagtaga cgtcgtttta gaaggtctaa ttcttgcata 240
 ttatcaggtg gacaaacctg gacagattgg aaaagaagta ttctcggaga agccaatgtg 300
 aacatttctt ttatgacgtt gggtcgacat gtaccatcgc aaatggctct tgtattgcta 360
 ggcttggaga atcaacccga tgagaaaaca tcggaaaaga ttcgggtaaa cctcgaattg 420
 gagaagaacc cgtgttatta gacttgggtg aaattt 456

<210> 1538
 <211> 399
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-029-Q1-E1-G12

<400> 1538

gggtggacat gttgcacgtt ttgttgtctt ggattgacag acagggcgga gtgtgtgtgt 60
 acgattaatt acgtacaagt gcacgcacat tgattgatat atgtaaaccg actggtggca 120
 gagaaatgcg catatgcagg gacgatggag tgtgcagact cgtgagtata cactcagttt 180
 gaacaagcga ttgaatgggt gtatttggtg gagacgtgca cctcgggcaa acatagagtt 240
 ccggaagttt gatcaaacgc ctatgggaac aggagatggt ctcgtagaag caccactgca 300
 tagatgtatt tgttcacacg gcatccgaaa cgcactcttt cgtaatcgca tgaggctggc 360
 aacactggca aatcaatact tacatgcacc tcaatgctt 399

<210> 1539
 <211> 255
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-029-Q1-E1-G3

<400> 1539

tatacacacc atttttcaca caaccaacat gcaaataaca cacgtaatcc acgctgaaca 60
 ccattctcgc atcaatacat gacccaactc taagaaaata atatttgtca caatcgaatt 120
 aattccaata ctgttcagtt caatctctcg tgaaacgctc tgaacactcc taaaactcag 180

aacatcagct aaatatcata cacatctcat aatcgcaaca ctgcggctca atccgttctg 240
agtccccccc tactc 255

<210> 1540
<211> 595
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-029-Q1-E1-G6

<400> 1540

cactaggctc ggaataccgg aatcaccacg cgtccgcgag acgcaagagt gaagatggaa 60
cactggagtc cttacaaaga cgaacttgta gctacagcaa aggcgctggt aactcctgga 120
aaaggaatcc ttgctgggga tgagtctacg ggcactatag gaaaacgttt tgctccata 180
aaggtggaga ataacgaaga aaatcgagc agctatcggg agcttttatt cactactcct 240
aactttggtc agtatatttc ggggggttatt acttttgagg aaacgttgta tcacaagact 300
agtcaaggaa agccatttgt ggacgttatg aaggaagctg gagttatccc tggcatcaag 360
gtagacaagg gagttactcc gatccctggt acgaaggatg aaacttccac ccaagggtcta 420
gactcncctt tgagtcgttg tcaaaagtat tatgagaccg gtgcaagggt tgcaaagtgg 480
agagccgtga taaaaatatc cttggcagat ggctgtccta gcgatgtggc aatcaaagag 540
aatgcttgng gattggctcg ttatgcagca atatgtcaac aagctggttt ggttc 595

<210> 1541
<211> 591
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-029-Q1-E1-G8

<400> 1541

ccacgcgtcg ggcgagattt gcctcgtcga atgagagctc tttgcgtggt tggtttctta 60
tcttcggcag agtctgggta tctgcactat aataaagcgc gtgtgccctt taaaagccag 120
ttttcacgaa tttctctaaa tactgtatta agggcagaaa aggcccttca aacgagaaga 180
aaattaagta ttagcctttt cttgggactt ggcttgaaac aaaacacgtg ttcagcactc 240

catctggtac aggtgacaaa tgccaccttc agtgacctgg agagcagtag tatggcgggg 300
aacgaggaac cgcagatag acaaactttt gaaaatttaa ggatttgtca agtatttgaa 360
ggaacagtgg aaaagttgat gccatacggg gcttttgtga atataggacc gaatctttcc 420
ggactgctgc acgtttcaca aatctctgaa aacttcttaa cagaccctgc agaagtgtt 480
agtgttgac aaacagtgca ggttcgagtc attagattgg attctgagaa aagacaattt 540
gcactgtcta tgaagtcctc gcgtaaacga gaaactagtc gtccaaacag g 591

<210> 1542
<211> 384
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-029-Q1-E1-H1

<400> 1542

agaactcata tcaaccaa at catatcgctg taatagaagg cttacatcca tggtatgatt 60
ccaggatgaa acagctctta gactttactg tataacttga tataagtgat gaggtaaaag 120
tagcatggac aattcacaga gatatggcag aaagaggcca taaacttgaa aatatcttgg 180
cgtccattga gtctcgaaaa ccggatttcc aacaatatat cgatcctcaa aagaaagatg 240
caatagcggc cattcaagta ctntccaacc agctcattcc tgatgacaaa gaaaagaacg 300
tcttacgtgt acgttttata caaagagacg gaaatccccg gatccaactc gtatatctgt 360
atgatgaagg ttccacaatt gact 384

<210> 1543
<211> 437
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-029-Q1-E1-H10

<400> 1543

gcgtccggag aaaaaaccca gaagccaaga taaggatatca aagtaaagaa agaaggaaaa 60
ggagaagaag agaggggtacg cttagaagca gcaaaccaga gaggaaagcg ttaaagcatg 120
aaagaaaaga aatccgaaaa agaagagaaa aaggtaagaa agaggaccga atcagggtaa 180
gaggtacagg agcaagaaga gaagagagaa tgctgggtgg agtagcgaag caagagaagg 240

gaagtaaaag gtaagaaaga ggaaagggtt acgagagaag gaagtagaaa gaagagagtg 300
 taaggcggcg tcataataga aatccgaaag gagtagaaga aaagagagag aagaaagaaa 360
 agaagagaaa agccgtactg aagaccgaca caggtactcg aggagaaagg agaaccagat 420
 taaggtgaga gaatgga 437

<210> 1544
 <211> 449
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-029-Q1-E1-H12

<400> 1544

ccgggtcctt cagaaatggt gactacctga aacttcactc tggaccagga ggtgtcaaaa 60
 gtatggattg gtgtgcgaca ctatttcgaa tgtatattcg ttgggcggaa caacattcat 120
 atgaagtgga cattgtcgat gagaacaaag gagaggttgc aggtattcgt tcaggaacgt 180
 tgaagattga tgggtggcgat ggttgttcat ttggttggtt gagaaaggaa gcaggagtgc 240
 atagacttgt tcgcatactt ccgttcgatt ctggaggtcg tagacatacc tcatttggtg 300
 cagtttctgt tattcctgat gttggtgaag acttgaagga aaatttgatt gagcctggct 360
 ctctgaggat cgaaacgttt cgagcttctg gttcaggagg tcagcatgtc aacaaaacgg 420
 aaagtgctat acgcatagtc cacatccca 449

<210> 1545
 <211> 498
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-029-Q1-E1-H2

<400> 1545

catgttacta tcctcatgat ggtttgaagt tctatgtgag tctttttacg agacctcctg 60
 tttctccagt atcttctgct gcggggagtg agaacggtga aatggattct gctgctcttt 120
 tgaaggaact gtgtctagat ggctattccg cagaagtgga actgggccag aatgcacttt 180
 tgaacagcca agacagtcct gggtcggtag acggagttgc agatgatatt gcggccaacg 240
 ttttgaacag cactcacgag tctacgagga ataaggacaa agttccttgt tatgaccgtg 300

atTTtgagtc tGtttgcgaa ccttttattg aatttcgcca tagagatggc agttgtcaac 360
 gtttttctga agttgttcgt caatttgaga aaatagcttt tgaagggtgtt aataataatc 420
 tcgttttagga atcgtcgaga atatatttgg tttctcttgc gcgacacaat aaatcatcgg 480
 tacttgtgcc attttttg 498

<210> 1546
 <211> 293
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-029-Q1-E1-H4

<400> 1546

tccccaacct tgaggacttt gaccggataa tgaaaagtta tttggatact tcgggcggac 60
 aattcttgaa agagacttca ccagaagtaa cactgaatt tcggcaggct tttgatgatc 120
 caagttccgg ggatgatccc attgaattgc caggaaccaa ggctcctcca tggaaccaac 180
 gggttggccc caacaatttt ggaggaaagg aatttgggtgg gaccaaccac cacccttta 240
 gggtaaatat gccatatgct tgggtgtaaaa taaaggattg aaccataacc ttc 293

<210> 1547
 <211> 546
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-029-Q1-E1-H6

<400> 1547

aggctcggaa atccggaatc accacgcgtc cgaaaatggg tttgaatgga gtcgacaatg 60
 gacgtatatg gtttgatcat gtgcgtattc ctcgagaaca cttattggct agattctgtc 120
 aagtttctgt ggatggaagt tattcttcgg tttataagac tgcggatgag aggtttgcag 180
 cacaattggg tgctttaact ggaggtcgtg ttagtatttc ccgttccgct atgaatcagt 240
 ccatggcca acagagggag tggaaatacc tattatgaac tatcaaagtc atcagatgag 300
 attaatgcca ccattggctg caacttgtat tatgactttg tgtgccaatc atttaaagtc 360
 tcgttatcgc aaccgagcca atgagaattt aaaggaattg catatttga gttcagggtt 420
 caaatctttg atgacttggc aaatgagaga tactttacaa gaatgtagag aagcttgtgg 480

agggtcaagga tatacaagtg aaaatagaat tggcgtcttg aagagctctt tttgatgtct 540
attgac 546

<210> 1548
<211> 441
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-029-Q1-E1-H9

<400> 1548

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gggaaaccga gataatacat atatgataca tcagttggca agatttggtt acttcaaaca 120
acctttattc tgataaaaca agtactcaac gcaaacacgc aagtatggtt gcctttgcat 180
gcaacatcct ttcttacgag ctataagcgc ttgttggtga agaaggataa ctgctgtagc 240
tgtaatagct actgtacatc ggataggagc ttgagtaact tggataataa ggagtgggag 300
ttggttcctg gatataatag aaaccatatt ccagggttga taagagacat tcgaaacacc 360
actgataaca ctccaaatac cattctggat agtaataagt cattggagga gcttcatagg 420
tagcatanga gatgggtgaa t 441

<210> 1549
<211> 415
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-030-Q1-E1-A1

<400> 1549

ggaaggggag ggaggatgat ggtttggttg cggttatggg tggggttgac agggatggca 60
ggtttcgctg cggcgatagg tgcctggttg aaccatcct cgcccatcga taccatctac 120
cgaaacattg caccatcgca tttgctcgca tctccaatgg atgaagcgtc gtcgtcggtg 180
gtaagccgct tatatgccac ctggttattt ctttcgaccg ttgtgcatg tacttttatg 240
ctatcttcg agttttcctt gcctctagcc gtcgtcacct tggccaccta tgcgtcgcg 300
tggtgacact ttgcggtgga aatatttatt taccacacgg tgccgttgaa acctggtggg 360

caagcacctt tgttggttgc ctcggtgtcg ataagttgga tgctgtggga tttga 415

<210> 1550
<211> 413
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-030-Q1-E1-A11

<400> 1550

tcggcacctt catcgaaatc gtcttcgaaa accccgagaa gagcatagac tccctccacg 60
tcgatggcta cgccttcttc ggcgtcggga tgggccccgg gaagtggctg cgggaggtga 120
ggaagacgta caacctgctg gacacggtga gccggcacac gatccaggtg taccgcggt 180
catggacggc aatcatgctg acgttcgaca acgcgggcat gtggagcgtg cattccaaca 240
tctgggagcg gtactacctc ggggagcagt tctacatcag cgtcgtctcg ccggcgcgat 300
cactgcgcga cgagtacaac atgcccgaca acgccctcgg ctgctggcaag gtcgtggggc 360
tgccgctgcc gccgtctac gccccgcgc gctaagacga cgaaggcctc gtt 413

<210> 1551
<211> 108
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-030-Q1-E1-A12

<400> 1551

gcacgggaca aaaatgaaca aggcgttcac gctcgagaag cccatggacc tgaaaaaagg 60
cgtgaaccac gtcgccgtct tggcgtccac gatgggaatg atggacag 108

<210> 1552
<211> 414
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-030-Q1-E1-A2

<400> 1552

cacacgcgtc cgaaggaact aggcaaaagg atatggtatc tgcggtagaa catatgaaag 60
aacgtgctgt gaagtgagag aacgtacgag aaagccaagt gaggaaaaga aggcaagtag 120

agggcgggccc gagaaaggag agggcgtaag acgtgataca gagtaggaag aaaagagaag 180
 agagctagaa aggaggtaaa agaagagtaa aaggactaga agaggtacgg aattcacgag 240
 gaaggagcgt gaaggaagga ggaatcccaa gtaatcgagg aagaaaaagc ttcggtgaaa 300
 gcgtgaacgg attttgtaca cactgcccgt caagttctgg aagtgtgcta ggaataagca 360
 ggagaagtag aagagagtag gaaaagaaga aaggaagtga agacgtaaga cgtg 414

<210> 1553
 <211> 442
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-030-Q1-E1-A3
 <400> 1553

cacacgcgtc cgcccacgcg tccgcccacg cgtccgcca cgcgccgaa cagcaatgtg 60
 taaagtatgt ggctcaacaa gttatcgac ccaacaatg tgtcaagtac tataccgagc 120
 agaagattca acaaaagtat tgctctcgct atgttactga agaagaagta caaagcaagc 180
 agtgcacaa gtatgtatct cttcagaaga tcaagtacga gtcttgctct gctcaatatg 240
 aagttcaaaa gatcaagcag caacaatgta ctatgacagt ctctgaacaa tacatacagc 300
 ccgatacttg ctacaagtat gtccctgaac aacaattggg gcctcatact tgttacaagt 360
 attattctgt acccaagttt attgaaaagt gctatcctca gtatgcaaca acggagaaat 420
 gtgtaaagta tgagtatggt cc 442

<210> 1554
 <211> 273
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-030-Q1-E1-A4
 <400> 1554

acgcgtctga acattttgag gcttgaccga gttgagttct gaaataactt tatcataagg 60
 tgtcaagtat ctcgattcag aagttctgtc tactcaagga gttttacttg gcatttcact 120
 tgcagttatt ttattgttct gcgtgaccac ttaatggaat tagaatgaaa gctcttactt 180
 aaaataaaaag tagtactttg agctttcaaa accaaaaaat taaatgcgaa tcagtaccat 240

tggtattaag aattgccgtc ctacctgtaa tga

273

<210> 1555

<211> 40%

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-030-Q1-E1-A5

<400> 1555

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ttcgtttgcc gcgcaactgc cgcactcagt tttggtggga caagttggct gcaccatgca 120

cggaaattca gtggttggtt ttgtcagttg acggaagttt tgcttgtatt ccatctagtt 180

gaaatgaagt cggtttatgg tggattgtcg tcaacaacaa cgaccaccgt ctagtgccccg 240

tgaagaacca caaccatctt tgcaaccttg ttctgggata caacgactcg aaaaagacgc 300

ttgatgatat tttagtttgg caatggcgtg caagttcgtc gtggaacctc gatggatatt 360

cttcctgacc gtgtattcaa tgttttttgg tgtagtagtt actggt 406

<210> 1556

<211> 424

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-030-Q1-E1-A7

<400> 1556

cattgggtat gtggtttctc ctttttttga ggcaccaaga tacgcgaagc actgaatatt 60

gcgggaactc tgctatttcg tttcttctat ggtcctgggt tgggtcccgt tccttggggt 120

attgtagcgg agatctatcc ctggtatggt cgttcgcaat gtctcacgtt gaactcgttt 180

atcagttaca tgctgaattt cgtcgtttct ttttcattggc caacgatgct caagtcgatg 240

catgcacaag gcgcgttttag tttcttttga ggttttacgt tgttatccac ttgctttatc 300

tatttgtttg ttccagaaac caaaggcgtg gaaatggaag ccattcaaga attgtttcaa 360

tatccattgt atactattgc taagaagaat ctaagggaaa ccaaagcgta tttgagcaag 420

tttt 424

<210> 1557

<211> 420
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-030-Q1-E1-A8

<400> 1557

caacacaggt actcgaggag aaaggagacc caaattaagg tgagagaatg gacgataagg 60
aactaggcaa aaggatatgg tatctgcggt agaacatatg aaagaagcag caccgactgt 120
ttagcaaaaa cacagcactc tgcagaaaag agaaaatgta aagtatagag tgtgcggcct 180
gccaaatagt agagaagaaa tcgatgaaag tgaaagcgag taaaagatga ggtatagaga 240
atggcggtcc taactgtaag gatccaaagg tagcgaagta aatagacgtt tgaaaggcgt 300
ccagtatgaa aggagaaacg agtgtagcac tgtctagtcg tccaactcag cgaaacagca 360
ataactgtga aaatgcagta aactagcagt aggacggaaa gagcccataa ttcttgacta 420

<210> 1558
<211> 420
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-030-Q1-E1-A9

<400> 1558

ttaaccggtg gttcaacctg gctaataagc cggcgtgccc ttcgttcttc ctcgtcccga 60
tcccgcgcac gctccgttcg gctccggcaa accacatcaa gtcgcgatgg agatgaagaa 120
ggtcgcctgc gccgtcctcg ccgccgccgc ctccgccacc gtggtcctcg ccgccgaggc 180
cccggcgcgc gccccacca gcgcctcttc ggccgcgttc ccggccgctcg gcgccgtgct 240
gggcgcctcc gtgctctcct tcttcgccta ctacctgcag taaaattaaa ggaggatcgg 300
agggagaggc tgctggctgc cattgcctgt attcggttgg attccgttta tatatatagt 360
taagtacttt aatttgggtc tgaacatgtc gattgatcca ttcattttat ttgctttgcc 420

<210> 1559
<211> 452
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-030-Q1-E1-B1

<400> 1559

cacacgcgtc cgaaaagaaa gaaattagac aaaatcctca taagattatt cgaagactct 60
tgtgtaacca atcatgttgc tcgagcattt gactttgcta gtagactata ttcttacaag 120
gcgtacaaaa ttgcctgtca agtagcaaac caccataaat taggtgcact cgctcaaaaa 180
gtagagtcac tgatggatca atgtcctgaa attcaggaaa cgaaaagttg tcttgtggat 240
gattctgcgg agtctccaac gatacaaca cataacaaca atgagaacat acctgttcgc 300
gccaatcaga gtacagaagc tattcaggtt gtacaaggag atcttgctat tcaagacaaa 360
gcacaaggta tcggtgcatc tgctttggta actccatcga ggattcaaga aagaaagccc 420
aaactgcaag aaatggcaaa ctgccttgat ac 452

<210> 1560

<211> 461

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-030-Q1-E1-B10

<400> 1560

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ccaatctaaa gtgagctact taacggacta gttaatacta gtgaaataga ttagaccctg 120
ctggccatgt tttaacttaa attagtagat cagaccaaac caccatgaa caaataactt 180
accagcatat tcatggtgac caccctccc atcctagatg ttgccataat acacttatct 240
tatgccacca gcctgttaac catctgtcct tacctacaag ttatcctaac tacatgtccc 300
taattcggat aaagacttca agaacgaaga tcgaagatga tcgagctcat caaatcaagg 360
aaggataagg ttcaagctag atcttcaaaa gtaatcaaga ttcacaatct tggatagagt 420
ctttcctagc cctacccttt cataancaa cctatctatg c 461

<210> 1561

<211> 363

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-030-Q1-E1-B11

<400> 1561

cttcggaatt cctcactgaa aaaggttact ccttcaccac ctctgctgaa cgcgaaattg 60
taagagacat caaggaaaag cttgcatatg tggctcttga atacgaccag gagctcgaga 120
atgccaagag cagctcatct gtggagaaga gctacgagct gcctgatggg caggtgatca 180
ccattggggc agagaggttc agatgccctg aggtcctctt ccagccttcc ttcattggta 240
tggaagctcc tggcatccat gagaccacct acaactccat catgaagtgc gatgtcgaca 300
tcaggaagga cttgtatggg aacattgtgc tcagtgggtg cagcaccatg ttccctggta 360
ttg 363

<210> 1562
<211> 431
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-030-Q1-E1-B9

<400> 1562

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cttttccgac attcacaggg gggacaggaa atcagcggcc atggcctcga ttccggcgac 120
gaccttcgcc gtcattcttat ccgtcctcgt ctgtgccgcg gctggcaccg ccgtcgacaa 180
cgacctccc gactacgtca tccagggccg cgtctattgc gacacctgcc gcgccgggtt 240
cgtgaccaat gtcaccgagt acatcgcggg cgccaagggtg aggctggagt gcaagcactt 300
cggcaccggc aagctcgagc gctccatcga cggggtgacc gacgggaacg gcacgtacac 360
gatcgagctc aaggacagcc acgaggagga catctgcgaa gtgggtcttg tggagagccc 420
gcgcaaggac t 431

<210> 1563
<211> 435
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-030-Q1-E1-C1

<400> 1563

aaagtatcgg tagaacagcc tgtgtatgag gttgaaaaga agaccgcaga atatgagata 60
agaaagtacc ccagcttaag aatagctgaa gttcatcggt cagactggaa aaaagaagag 120

aatggctcgg catacgactt tgagtcgcaa gcatttcgag tgttggcgtc gtacattggt 180
 gtatttggag aaccccaaaaa caaagatagc tccaacacgc atgttaagat agcaatgaca 240
 gcacctgttt tatcacagcc cataggggtcc gtggaaacaa gaatggacga cagcagtcta 300
 gcgtttatat tgcccaagga gtatgcagag caacaagaac ctccacagcc attagaccca 360
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 gtcaatcgtg aaaca 435

<210> 1564
 <211> 464
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-030-Q1-E1-C11
 <400> 1564

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 ctcgccaagg aggaggtcaa gacggccgcg acgcccagag cgcgaggagg gctgaacctc 180
 tgcaagacct actacctgga cgccgccgac aacctcggcg cctgcaagcg cgccatcggc 240
 ttccgcgacg ccgtcaccat ccgcgccacg atgagcatgg tggcgcagga cagcgagaac 300
 tgcgacgagg agttcaggaa ggccgtctcc aagaacccca tggaggacca caacaggtcg 360
 ctcatcgaga tgtccgagat ctgccgcacg ctctccaaca tgatccctta cgaacatgtc 420
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<210> 1565
 <211> 257
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-030-Q1-E1-C3
 <400> 1565

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 aaacaagaaa acccaaagat acctcttcaa caacttagtc cactacacga tacactgttt 120

actagaaggg aaacttttat tgtgctaata cgagcttttt gacccttact cacacttttt 180
 ttcggaagta tctgaaccac ctggcagtgg tatttgctga cgtccacttt ggtaaatttg 240
 tgacttgctc ctttaca 257

<210> 1566
 <211> 440
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-030-Q1-E1-C7
 <400> 1566

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 aatgcagaaa gagctattat aggaaatatt acttgtccag aaagtatcga attgtgtcgt 180
 ctattagctg gacatatagc ggtttgggtc gatgaacatt tggatgactt tcgtttggaa 240
 gctatcttgg gagcactatt gtgtacttgt tattgtgagt ggaagcgttt tgaaggagaa 300
 ttgggggtac aagaatggaa tgaattggag aagatatctt ccttagatac ttggaagctt 360
 gtgcttggtg caagacaaag agtggataat atgttacagc gagtacacaa gctgacgagc 420
 atcttgcctt ttttatactc 440

<210> 1567
 <211> 288
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-030-Q1-E1-C8
 <400> 1567

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 ctcgtagtct tgataaacia ccttatggaa tgatagacca agttacaaat gtttgtttgt 180
 ttttgtttct ttttgtgtga gttgtgtgtt tgaatatttg ttcttttcat gagaagagtg 240
 tcttacctct gccttgataa aagtagccaa acggatggat tggtcgag 288

<210> 1568

<211> 409
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-030-Q1-E1-C9

 <400> 1568

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 cgcccgaatc tgatgcttaa accctcgccg ggaggaggat tccaatcccc acgcaccagc 180
 ccgcgcccgc cacctacagc cgcgcccga tctccgccat ggccgcccgc ccgcaccagg 240
 cccagggccc cgcagatagt gtgattccgc tgcagtctga acctgcactt gataataatc 300
 cctccaagag tgcaaacgct agggaccaga ttctttctgg tacggagaat gtgactacag 360
 gcaatgcacg cggcggcagc tccttgaaat cgcaaaaagg cccgccaga 409

<210> 1569
 <211> 225
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-030-Q1-E1-D11

 <400> 1569

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 ttccaaatcc ccaaaaattg tatctcctag ttgaaaaaac tatttcacat cacttcatgg 120
 tccggtggga ctccctggat caatgatcgt taatttgggg agtgattacg aattgcacta 180
 aagattcact gttcagttcc cattaactat acaaatcacc ccacc 225

<210> 1570
 <211> 105
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-030-Q1-E1-D2

 <400> 1570

 acgcgtccgc gatagacctc tgcccacgcg tccgctcacg cgtccagctg attcttgggc 60
 ttatctcaca agtctgggtgc cttgttaact gtacgagcat acttc 105

<210> 1571
 <211> 400
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-030-Q1-E1-D8

<400> 1571

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 tttgtgacgt tacaacttgc cagggaaatg gcagagctgg tagatgacca attcttgaag 180
 ggcltcttcg agaaggtctt ggagtctgct cagaagacgt ttttaatttgt caagtagagt 240
 gtagtgtgcg tttttctgtg tgtatttgc tctgtgtgtg tgtgtctgtg tgtgtaatga 300
 gtggagccga gtcagagaaa acggcttggg tctttcctgt ggacatagtg ggtaaagtct 360
 gatgggtttc tccacggctt tttagtaaatt aaaagttggt 400

<210> 1572
 <211> 377
 <212> DNA
 <213> Cyanidium caldarium

<223> unsure at all n locations
 <223> Clone ID: LIB190-030-Q1-E1-D9

<400> 1572

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 tatataagag atatcgagaa gttccttcac aagtcccaa aaatgtatct cctgtttgaa 120
 aaactattaa acaaacttga tggaccggtg ttagtccttg gatcaaggat tgtagatgtg 180
 gagagtgatg aggagttgga ctacagattg actgttctgt tcccatataa tatagaaatc 240
 aagccacctg aaaacgaaaa ccaccttgta agttggaaat cccaattaga agaagacatg 300
 aagatgattc agtttcaaga taaccgaaat catattatgg aagtccttgc agaaaatgat 360
 cttgaatgtg acgaatt 377

<210> 1573
 <211> 271
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-030-Q1-E1-E1

<400> 1573

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agaaggagat gacgattctt cttctcatgg tggaaagaaa aaaggtcgtc acccaccaga 180
tggctttgta cctgaattgg cataatcttg tttgtattgc tatgtatgta tgtttgtagg 240
tgagaggcgc gaataaattt tccttttccc c 271

<210> 1574

<211> 438

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-030-Q1-E1-E12

<400> 1574

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cttgctgcag gttatgacat ttgttctctg gaagactgta ttgtaccagc tcgaagtcgg 180
tactgtgtta aaactgactt ggcagtggcg attcctctcg gacactatgg aagaatagca 240
cccagatcag gacttgcctt aaagcatgga atcgacgtag gagctggtgt tatagatgag 300
gactatcgag gaagcctcgg tattatthtta tttaatcatt ccgaagagga thtccatata 360
tccaagggaa atcgaatagc tcaacttate ttagagagaa tatctactcc cgaagttgth 420
gaagtggata atctcgat 438

<210> 1575

<211> 255

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-030-Q1-E1-E2

<400> 1575

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gtcttctctg cacatggaag aagatagcaa gtcgagthca gcttccaagc atgacgaaga 120

ggaagaagaa gaaggagatg acgattcttc ttcgcatggt ggaaagaaaa aaggtcgtca 180
gccaccagat gggtttgtac ctgaattggc ataacttctgt ttgtattgct atgtatgtag 240
gtttgtaggt gagag 255

<210> 1576
<211> 449
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-030-Q1-E1-F1

<400> 1576

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caggttcact agtcattgtc atatcgaaag gagctgttct tgatgagtta ttttcgtgta 360
tagtaacaga attcggagtc ctgggtgtctg tcatgttctt ctgggaagtc gctacagaat 420
cgctctttga aggaccgccc ttcaatgaa 449

<210> 1577
<211> 194
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-030-Q1-E1-F10

<400> 1577

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ggctctactt cgctaagttc gggcgccggc tcgttgatct tctcctgtgc aagctatgta 180
cgggtgaccc cgtg 194

<210> 1578
<211> 155

<212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-030-Q1-E1-F2
 <400> 1578
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 tgtaacatag ctcccagcgg cagttattgc cgagaaaccc gttgcacctt gataaaatcc 120
 tggagcagct agagataact ttggagtgat acttt 155

<210> 1579
 <211> 105
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-030-Q1-E1-F3
 <400> 1579
 cgaaacatct aatcttcatt gtgtcacaat gacctaacca ctttgattca cattcaaagt 60
 gaaaataact ggctagctcc ttttgtgtta cattgcaatg tttta 105

<210> 1580
 <211> 456
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-030-Q1-E1-F4
 <400> 1580
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 actattttta aggataagcc aagtgaactt gtaactttgt agaacgggtt ggccttgta 120
 gcgagatagg attgcatcta gcaacggcag ggatttcatt gtcgaaaagg agcgtgaaaa 180
 cgtatcactt ttatccgaat ccttcaacta catatgtaac gacatatagt gaatttttagg 240
 agccacgagg aaagtttcca gcaattatcc tttatgtagc gaaaacgaag cttacatca 300
 aacatggcaa gggacaagac tctggacttg ttagagcgac gaaggttttg tatcacgagc 360
 cgacaaagaa cccttgcatc cgtcattttg aggctttacg tcagtttntc gacatgcaaa 420
 aatgttacat ttgtaataaa aattaaacat ttgact 456

<210> 1581
 <211> 443
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-030-Q1-E1-F7

<400> 1581

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 gtcctgtata tttggcaagt ttaaggaatc cgtggagaat tggtagagc gatacgagtt 180
 tacctttatt tatcaagcac ttcagcgaact ttgtattaca gagttgagca acttttattt 240
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 tcaaactgtc ttacatattt tactagaaga cttggtacgc atacttgctc ctattcttcc 360
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 tgtatttcag tctggttggga tat 443

<210> 1582
 <211> 458
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-030-Q1-E1-G10

<400> 1582

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 ttataacgac aacacgaaag tagagaatag acacgaaaat agactttgct ttacagtgtt 180
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 aggcaagccg tttgaacttg ttccctttga cgaacgagct ggagtcgttc ccaataagtg 360
 tggtcgcgtc ttgagccgag tcgaacaaac ctcggaagaa gaagagttgt ttgaaaaggg 420
 actgtacgtt gttggctggg tgaaaagagg accaacag 458

<210> 1583

<211> 444
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-030-Q1-E1-G11
 <400> 1583

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 ctectccgcy ccgacctcgc cttectccgc tgcctcgagg gcagccggca cagccccgcy 180
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 ttcttcgccc atttcgtgaa gagggtcgcy tcgtcgtcgg gcaggccgac cggcggcgag 360
 aagcagaggc tgtgaacgaa tttgctcgcc tcgtcctaca tgtaaattgt gtagatcgag 420
 ccgaattggt tggggccttg gggg 444

<210> 1584
 <211> 470
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-030-Q1-E1-G12
 <400> 1584

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 gccgcagttg cagccgacgt agtttcagag gagagatggg gatatgctca gcaaaccxaa 180
 caacagcaac agtgccaaca agtatgtaaa cagtatgcat actatcagag tccagtctgc 240
 acttccgtaa ccacacagag ccatactgg acccaatgct cgaagactgt gcaaaccttt 300
 gtcccaagcc agtgcagtag ttatacccaa tctctacat ggacctattg cagcacctac 360
 accaccacta gcgtaccatc tcaatgcagc aaggccgtga ctacttatac tcaaacctgc 420
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<210> 1585
 <211> 417
 <212> DNA

<213> Cyanidium caldarium
 <223> Clone ID: LIB190-030-Q1-E1-G4
 <400> 1585

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 cagtgagtac ttttgatgtg gctatgaaga tgcttaaaaa caatgatttg aagccacctt 360
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<210> 1586
 <211> 414
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-030-Q1-E1-G7
 <400> 1586

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 cagtacttgt ctgaattctg cagaaggaaa tgttacggtt gacttgtcgc ggcagtgtag 180
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 ctgtagacgc tcggacttga atgaaacgga agcattggag tcctgctttt cgtttatgaa 360
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<210> 1587
 <211> 459
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-030-Q1-E1-G8
 <400> 1587

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gcgtagagca gaagaactgg gtgtaaaggt cgagtagtag agtaagtgtg aaagggaaag 180
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aaagaaagga agacacagta aatgaggcga gaaagcatag gaagtgaaac ggattaggaa 300
cccgtgtagt ctatgcagta aaagaaagaa tgagtaagaa aaaaggaggat cattccacca 360
ggggagtaaa ggcgcangan agaaacccaa agcaattgac gggaatcgga aaaaggggtg 420
gatcacgtaa attaatccga tgtaaaccga gaaccttac 459

<210> 1588
<211> 266
<212> DNA
<213> Cyanidium caldarium
<223> unsure at all n locations
<223> Clone ID: LIB190-030-Q1-E1-G9
<400> 1588

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tcgaggacga gcgcctcggc aacgtggaga cgaccgcgt gatcaagatc acgcacctcg 180
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gcgaccaggg cgacatgagg ctgcgcg 266

<210> 1589
<211> 419
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-030-Q1-E1-H10
<400> 1589

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tgctccttgc aattcgtaa agctatcaca agaagagttg gaacgattgc cacctcaagt 180

gagacaagta ttggaaccca agtaatggga tggaagaacg tatttgaagg caaatatatg 240
 gaatgcagtg ttggcatttc aacgaaaacc tggagatact gggtcggcag aagtacaagt 300
 tgcggtgttg accaatagaa tggaagcatt ggagaaacag tgcaaaaagaa aacaagatga 360
 tacgagagca aggtacttgt tggatcactt tacttcgacg agacagagac tgttgcaat 419

<210> 1590
 <211> 255
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-030-Q1-E1-H4
 <400> 1590

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 atatgaggaa tgtggtcgat cgaactagaa agatggcgaa gatcctggag ttgggatgga 180
 gtaaaaaacg tgcccatgac tatatggctg atgataataa ttgggataca cattggaacg 240
 actacgggaa taaac 255

<210> 1591
 <211> 462
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-030-Q1-E1-H6
 <400> 1591

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 ttcactctaa gcactttaaa tggcgctga acgtttctgc tttattgaat tctatgaata 180
 gaatactcga atttcctgtg aaagaaggga aaacatactc tcgcccgcag ctatttatcc 240
 gaggagaaag atcaatttat gttatgaatc cgtccgctga aaaggctatt cggacttttt 300
 tcccaaaagc agtcattgaa acaattgaag gagcaggaca ctgggtaacc gttgaggcac 360
 cagaaaaatt ttgtgcagtt gtgaacagtt tccttcataa ctcaactgac ttgcgtcaaa 420
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<210> 1592
 <211> 431
 <212> DNA
 <213> Cyanidium caldarium

 <223> unsure at all n locations
 <223> Clone ID: LIB190-030-Q1-E1-H7

 <400> 1592

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attctgattg aagaaacagg agaacgaaag tggattggc cacagcttgg ttggtggaag 180
gcttcttcgg atggaaagca ctatgaaggc tgggaggaaa ctgtcgaata ttgaggagt 240
gtgtttcggt tgcaggggtcc ttttgaaggt gttttgggat ttagtcaagg agcagccttg 300
agctctctca tttgtgctat gaaagaacat ccagaacttg gctatggaga attttcttgc 360
atccgatttg cccttgtttt ttcaggtttc gtttcncgtg cagaagagca ttgcggttg 420
ataaaaacaa a 431
  
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<210> 1593
 <211> 437
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-030-Q1-E1-H8

 <400> 1593

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cctttcgaat tcacaatcaa aaactttttt gattcctttt cgtacatttt ggattgtggc 180
acacaacatg aaaattcctg tccgactcgt caagttttct ttggaaaaaa agaagccaac 240
ttgtttcaac agaagtataa gtggaatcgc ctacactttt tctcgccatg gacaggtttc 300
tgatgtcttg aaaaaggaga ctcaaagcta tgatgagaag aaacttggtc cttcgcaagt 360
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gggaaagata acagaag 437
  
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<210> 1594
 <211> 426
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-031-Q1-E1-A11

<400> 1594

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 acgtgtgtag caagcgtaga gcagaagaac tgggtgtaaa ggtcgagtag tagagtaagt 180
 gtaaaagga aaggaaagga gagaaagagg aaagggatga aatgcagaga tctctagaga 240
 aaggcaagaa agaaaagaaa ggaagacaca gtaaatgagg cgagaaagca taggaagtga 300
 aacggattag gaaccctgtg agtctatgca gtaaaagaaa gaatgagtaa gaaaaaaggg 360
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 gcgaaa 426

<210> 1595
 <211> 457
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-031-Q1-E1-A3

<400> 1595

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 gttagctcac caagaaagac acatcatgaa gaggatccta cttccaatga gttgtggtct 180
 gtggaagaat ctggtcaaaa tagacatagc gaaagcgatg gaagaagaac ggatagtgag 240
 gagggaagct tatcaaagaa atttgccatt accaaacgtc ttggaaagga aaattctcat 300
 cagatgagac gaacagagag agctgcaatg aagaaagagg cagttgcact ggcagcagga 360
 ggtgcttttg agaatgaacc taatcgccg gacgagtctt tcaactttca aacaaatgta 420
 aataccgaag aacagggttac tgggaatgac gatgtgt 457

<210> 1596
 <211> 436

<212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-031-Q1-E1-A6

 <400> 1596

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 tgtgtttttg gagttgttgt actcctgtcg tgggtggttg tgaatggctc tagtgacaaa 180
 gagcattggt actttccgc cattctccac agctccaacc accaacttgt atacgcacac 240
 atatacataa ccacatatta ctagagagtc gtggtgtaaa aaacgacaat tcgaatgggt 300
 gaaaaggctt gataaaaagc aaaggactag tgaagggtgt agagaaagca cttggaaaag 360
 ggggccactt ccttgatat tttgtctct agtaactaac taattccgct tggagatatt 420
 gtaagtttgg tgtatt 436

<210> 1597
 <211> 196
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-031-Q1-E1-A9

 <400> 1597

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 taaaaaagtt aaaaaaccca ttgtaaaata tggaaattga atataaaact ttaacaaatt 120
 aaacatgaaa aataaatata aatctttata aagtgtgtta aaacataaaa tctccagaaa 180
 tgatgcatta acttct 196

<210> 1598
 <211> 442
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-031-Q1-E1-B1

 <400> 1598

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tcgaagtcaa tgacatgtct cttcacgatt acattgcagt gaaacaaaag tatgctgttt 180
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 tagttgaacg cttagttaac tctttgatga tgcacggcag aaacaacggt aaaaagttga 300
 tggcgggttag gatcgtgaaa caggcttttg aaatcattca cttgttaaca gacgccaacc 360
 cggttcaagt atttgtccaa gctgttatga acgctggacc tcgtgaagat tccacccgaa 420
 tcggctctgc tggtagagta cg 442

<210> 1599
 <211> 352
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-031-Q1-E1-B10
 <400> 1599

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 agcgcgtatt gcacagtgtc taaggcggta tgaccaagtc tcggtgactg tagtaagaac 180
 ttacgcac cctctgcgag aattgggtcca atttgggaca taaagtcgtg acatcaacat 240
 gtctgaaacc tgtctgtcat gcttatagca caagaactgg gtgtaaagggt cgagtaggat 300
 actacgtgtc atatggaaac ggcaggatag acagatgaat gggatgaaat gc 352

<210> 1600
 <211> 378
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-031-Q1-E1-B3
 <400> 1600

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 agtttccgaa agacttgcgg aatctccatg tctcttgggt actggtgagt ttggttggtc 120
 ggccaacatg gaacgtatca tgaaggcaca agctttgcgt gattcgtcct tggcaatgta 180
 catgtcatcg agaaagataa tggaaattaa tccaacaat gccatcatgc aagaattgcg 240
 tcaccgtgtg gaagcagaca agtcagacaa gaccgtgaaa gacttggtca atttattatt 300

tgacactgca ttgttgactt ccggattctc tcttgacgat cccaacgttt ttgcctctcg 360
tattcatccc atgattaa 378

<210> 1601
<211> 300
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-031-Q1-E1-B8

<400> 1601

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aaaatgcaag tggatgatg ttaacgcaa aaaataaagt ctttgctttt tatttttgaa 120
aaaaaaaaa aaaaaaaaag aagaaaaaaa aaaaaaaaaa aaataagaaa aaaaaacaat 180
taagcaataa aaattgccaa acgattgttg aaattggcat ccaaataaac acatagaaaa 240
gagtgccgaa aaacttaagc agtttagtga acagatacta gacaatcaag tcgaacttga 300

<210> 1602
<211> 314
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-031-Q1-E1-C11

<400> 1602

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ttgtcggagt tcattaaaaa gttggatgac tcggaggag aacttttagc cgttgcaata 180
gacagcagtt caaggctcca agaatggcga acgaggagct tagggaatcg agagaaagat 240
tcttatcatt ccgggaagag ggttcgagag tttgaaagcg ccgactggaa gcctatggag 300
aagctttcta gaac 314

<210> 1603
<211> 380
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-031-Q1-E1-C2

<400> 1603

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aattatgcat caacatttgg cattgcaagc agctatgaaa ttagcatatt ctacgaagaa 120
ctatctttat gcgctgaaat ttgccaatcg attgttggag ttggcaccca atgaagacat 180
ggagaatact gccaaaaaag tgaagcagtt ttgtgaacgg aatccatcca atcaattcga 240
aatagagtat gatattggaca acaataactt gcagttggat gctggtagat tgaaaccttg 300
cattccaagc aagagttgtg tacattgtgg tgcttgttac gattccagtt ggcaatcgac 360
gacttgtacg gtatgtcaag 380

<210> 1604

<211> 308

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-031-Q1-E1-C4

<400> 1604

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gtttggttcc ttccttgtga ttttgtgaag attggagtcc gtaccactat tttgtccatg 180
cgatacacat aatgctcttc tagattatct aagaagctct ccataacgag gctcttgcgt 240
cattttcgcg atcatgatga ggaagagtca gaagaatgtg aggatgagga tgaacattat 300
gaatatgg 308

<210> 1605

<211> 337

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-031-Q1-E1-C6

<400> 1605

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gagtaagaga aggagtaatg tgaatgaaag caggaaagta tttgacgaag agagtgtaaa 180

gcgcgtacct tttgcagaat gtcccaccga gtgagcgagg aagcaaatg agagagccgc 240
 atctaccag gtaagacccg aagctagttg atcttatgct gtccaagcga agtaaggctg 300
 aaccattatc tgtgcaaaag gatttggaag agatggc 337

<210> 1606
 <211> 90
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-031-Q1-E1-D11

<400> 1606

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 aaaaaaata caacaactca aaaaaaaca 90

<210> 1607
 <211> 376
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-031-Q1-E1-D5

<400> 1607

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 tacaaaaaca tggcctttga tgcattggaca atcaatcttg tctggaatct atcgggcaaa 180
 atgacttcaa ggaccctttg ctgacatgat agattttcca tccttggtat gcaaaaattc 240
 cattcatgtg aaatacagtg ttctagcttt gtcgcttgat ctgagattca ttactaggat 300
 agcagcctct ttcaatgcct tcttgatgac acatcttcca tgtctatggt gtagaatatc 360
 tgcgaccctg gttact 376

<210> 1608
 <211> 437
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-031-Q1-E1-D6

<400> 1608

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 tccttgggtca ccttcgtact tgcaagccgt ctttcgtgac tggaaacact tttagcatca 120
 caaaaagaca actgtacact tacacaggcg tgggtgcttc tcttgtaacc acagtcactc 180
 tagcaaaca cagcgtttag gaacctttgt agcaaataca tcgtcgtcga aatatatacc 240
 ccaacgcctg cttatgaacg acaaaggctt attgaatact ttttctagat cccctttgga 300
 tagactcaac aaccatagga accaggcctc gttagttgaa gagtgtgaaa agtccaacca 360
 agtgagatac gtcataattt ttcaacgtga accactgtta aaactacaag tggaacaagg 420
 tcatccagaa ggaaccg 437

<210> 1609
 <211> 409
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-031-Q1-E1-E10
 <400> 1609

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 gcgttgctcc agtttgtacg tcgttttatg ttcgagaaag cctgctttgt tgatatcgtt 120
 gttacaaata ttggaacaga attgtgatga gcaagtgatt gatttatgga agacatatat 180
 acctaaactg tcgagaacac tttcagagga ctctccagaa cttgtagaga tagttgcaa 240
 tcattctccc aaagtagctt cctttgtatt ggagctgttg gatagtctga tggaaaatgg 300
 gaaaaagcca agtccgcaag tactggaagc tgctctcaag cattttcagg atgcttctca 360
 gcctttatgc gatgtgagat atgcaaattc ttttatggag tccttttcc 409

<210> 1610
 <211> 343
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-031-Q1-E1-E11
 <400> 1610

tccggggcca cccacgcgtc cgccaacgcg tccggtaatt ttttagcagt cacgtggatt 60
 cttacactg taaaaccgca acgaaaagtt ttttgatcaa tacagtacaa tgtagaacia 120

caaaattatc tgacaagcac catttggttca attttgcac tgctgtgagg agaacaactg 180
gagtttccaa agtaccaata cagtcttttg gatataatctt ctcccttcaa gaatacataa 240
acaagtagcg aaaaaaacac tatccgcaaa aaaaaacagg ccactcacgt gccacagcgg 300
ctgccacca acctcacag cccaccttc gttttttttt tgg 343

<210> 1611
<211> 199
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-031-Q1-E1-E4

<400> 1611

gcggacgcgt ggggttggtt tcttttcac aacgcttcgt tccgttactt tttgtcgtga 60
caacttataa tataaaatgg ccacaataat ccctgtgtcg tcagcgggtg agctaacttt 120
aaccagacac atagcgggcg gtaatgagca tggtagcgcg tgttctatcg tagttcacca 180
gtcgcacatc ccagacact 199

<210> 1612
<211> 354
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-031-Q1-E1-E5

<400> 1612

aattggtttc gaagcaaac gtttgaggac tatattagt acttgaaact caggggaaag 60
gaacgtgaac gacaagcaaa accttgtaga acacaacaag tgagttaggt ttttgtaatg 120
tgtgtaacc tcaacgctgt tagcgagaaa gacgagcaac ttaaaactaa aagagctata 180
gagcagcaca actcggaagg agctcgcat tttgctcaga atgcaattag aaagatgacg 240
gaaagaatga actacttaga gtaagctcca agactggacc ctgtcgctgg taagctgcag 300
tccaccatca tagttcatat cataagcaaa gatattggac acaccgtgc gacg 354

<210> 1613
<211> 398
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-031-Q1-E1-E7

<400> 1613

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ttctaagtca acttctgact aatcgagtgc caaaggaagc ttaatgagat ccatatagag 120
gtctatcgtg ttgactatca tgtgcgttgt tattcgtgtg cttactcatg ttttgacaca 180
ggtttggaca aatcgttggg caaatcgttg ttgcaaaagt tgttggcttc acttgaggca 240
tccaagcgt cactcgtggg ctcttttagtg gactcttttg cccacaagac tttacgcaag 300
atcatttgca cactgatttg tgcacagcac gatgagcact ttaattcgca gttgatttca 360
ctactgattt ctgtacagaa tgttgtcgca gatgtaca 398

<210> 1614

<211> 446

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-031-Q1-E1-F10

<400> 1614

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gaccatatct tttgaaaaag tcggtcgaag ttttctacgt gtccaaattg tcatacggta 180
ttgtcaactt gaagcctata gtgcctgggc acgtcctagt tattccgaaa agagtagtaa 240
agcgttttca agagttgagt cccgaggaag ttggcgattt atggcagtct gcacaacata 300
taggtgtaaa actggaacaa tattatcaag cccaagccat gactttttgt attcaggatg 360
gagaagctgc cggacagaca gttccacatg tacatgttca cgtgattcct cgaagaccgg 420
gagattttaa acgcaacgac caaatg 446

<210> 1615

<211> 386

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-031-Q1-E1-F11

<400> 1615

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 aagagcaatt caaaagctct tgggtttatta tccgcattac catctccttt agacgaagtt 180
 gctttgttca cctcggcggc tggagtcgtg tttggtttcc cctatttgac tccaaaaggg 240
 cccgatccaa agaaagacac ttggtaccag agcatcaaaa agcctgtttg gcaaccaccc 300
 aattggttgt ttccggcagt gtggatccca ctcaaagttt taaaagcgt tagtttggtc 360
 ttgttatgga agaaagaagg agaatt 386

<210> 1616
 <211> 433
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-031-Q1-E1-F5
 <400> 1616

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 tcccaaagtt tcgactcttt ttgtttctcc cactagccat attgaaccaa agtgttttgc 360
 accacttgcc acgacaacga atggttcact ctctgtgtgt ttctcttgac agaactcgaa 420
 gactatttat ttc 433

<210> 1617
 <211> 440
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-031-Q1-E1-F7
 <400> 1617

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gccaaactat tgctaaatca aggctccaaa gattggcttc gttcgttggg aaacttgctg 180
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tgtaggatga agaaaagttg agtactatat ctgcgcactt ggaacgcgat gctacagaaa 300
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aagacgtcta gctccaagat 440

<210> 1618
<211> 383
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-031-Q1-E1-F9

<400> 1618

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atttcatata gactttcatt ccatgaagtc taaaggaaat aagatgacac cggatatgga 120
tggttctcgg aggccggata tggtagttgg gaacttgaga ggaaagagtg cccgtccaga 180
gtttactgcg gttgttgtgg atactttgca agacttggga tatcgagttt cattgaatga 240
gccttatgca ggtgcagcta ttctaagaat gtatggaaat cctcgtcaag ggcgtcatag 300
tattcagatt gaaatcaaca gagagcttta tttggatgaa aaaagagttc gaaagattcc 360
tggcaagttt gaacgtcttc gcg 383

<210> 1619
<211> 454
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-031-Q1-E1-G11

<400> 1619

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ttttgtacta gtcttattcc atgcttcgtg gtgggtgaat ggctcctttg acaacagggt 180
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gtactagtgt gcctgtagag gaagcacttg aaaagcggtc acgtccttgt acttgtctac 360
aagtattttt ttttgcttgt agagattgca agtttagtgt actagacaag gtttccaagt 420
atcattcgtt gcctttaagc gcgtatgatg cacg 454

<210> 1620
<211> 207
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-031-Q1-E1-G12
<400> 1620

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gacgcgtggg ccgacgcgtg ggcggacgcg tgggtttgga agttagtact attgcagcct 120
ttacgtgggt gaactttggt tttcacttta tcgagggcta tttgtctatt ttgacgaaat 180
atgttggaag gcgcaagcta atccata 207

<210> 1621
<211> 451
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-031-Q1-E1-G4
<400> 1621

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tccaagcacc tttgacgaag ttctgtcaca aaaagatatt atttctacca ttttacgttt 120
tatcaactcc tataaccttc ctcatatgct cttttatggg cctcctggta ccggaagac 180
ttcaactata ttagcttgtg caaaatatat gtatggaaac aacttcaggt ccatgggttt 240
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ttgtagcaca cagaggattt ttgccactgg tgtgaagtta gttatcctag acgaagcaga 360
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cacaaggttc tgtttgattt gtaactacgc t 451

<210> 1622
<211> 431
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-031-Q1-E1-G6

<400> 1622

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ggagttgtag gttgtggtca gatgggatcg ggaatagctc tggttgccgc acagtatgcc 180
ggagccaaag tgttgctgta tgacagcaat ccacaagtca gtgccaaagc attggaatat 240
ataaatactc aagtggaaaa ggccggttcaa aaaaatcaac ttaataagga acagtcagct 300
tccatcgtaac aaagaatagg acctgtcggc aacttggaag cactcaagga ctgcgatttt 360
gttgtggaag cagtttccga aaatttagcc ttgacacggg aaattttcac caggttgga 420
caagtaactg c 431

<210> 1623
<211> 439
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-031-Q1-E1-G7

<400> 1623

caccacgcg accgaaagac acgctttggt ttgcttgact ttattcgagt tcctcgttgt 60
cgaagagcag cagtctacgg cattcttatt atgatcgttc aacagttttc aggaatcaat 120
tctatcaatt attatatggg aagtttgatg aacgaaactg gattatccgc ccagaatgca 180
gtctatacta gtatgattgg tgggtggcaca ggattccttt caactattcc tgcaatatat 240
ctgatggacc gactgggacg tcgaccactg ttacttactc tcattggcgg agtcgtggca 300
ggtttattta ttgttggtt ttcattcctt gttccaata ttcacaccag ggaaggtatc 360
tacatttggg gcgttgcat cgactatctt ttctggagtt ctgctctagg tccaactcct 420
tgggtggttg cttcagaaa 439

<210> 1624
<211> 372

<212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-031-Q1-E1-H10

 <400> 1624

 cacgcgaccg cagatgttta ttggagatgg cgccaagatg gttcgagatg cctttgccct 60
 tgcaaaagag aaagctccta ctattatatt taticgatgag ttggatgcga taggaaccaa 120
 aagatttgac tctgaacttt ctggagatcg tgaagttcaa cgaacaatgt tggaactttt 180
 gaatcagttg gatgggtttt cttccgatga taatattaaa gttatagctg ccacgaatcg 240
 agtggatata ttagatcccc ccttgatgcg ctcggttaga attgatagga agattgagtt 300
 tcctttaccg gatgaaagtt ctcgagctcg tataacttcaa attcattcaa gaaagatgaa 360
 tgttcatcct gt 372

<210> 1625
 <211> 255
 <212> DNA
 <213> Cyanidium caldarium

 <223> unsure at all n locations
 <223> Clone ID: LIB190-031-Q1-E1-H12

 <400> 1625

 ggtccaccac gcgaccgaaa aagcccagaa gcccaagataa ggtatcaaag taaagaaaga 60
 aggaaaagga gaagaagaga gggtagcgtt agaagcagca aaccagagag gaaagcgta 120
 aagcatgaaa gaaaagaaat ccgaaaaaga agagaaaaag gtaagaaaga ggaccgaatt 180
 aaggtaagag gtacangagc aagaagagaa gagagaatgc tgggtggagt agcgaaacaa 240
 gagaaggga gtaaa 255

<210> 1626
 <211> 450
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-031-Q1-E1-H4

 <400> 1626

 ggggccagca cgcgtccgga gaaatgcgtc ccactccttg aatgtatctc aaagagtcgt 60

<210> 1629
 <211> 316
 <212> DNA
 <213> Cyanidium caldarium

 <223> unsure at all n locations
 <223> Clone ID: LIB190-032-Q1-E1-A3

 <400> 1629

acgcgtcccc ggacgcatgg gatacgggaa agcagtanaa gaagaaagag aaaggaaaaa 60
 actgagtatc aggaagaaaa gagggagtag atgaggaaaag aaagatcaag gaagtaagag 120
 taagagaacg agtaatgtga atgaaagcaa gaaagtatth gaagaagaga gtgtaaagcg 180
 cgtacctttt gcataatgtc ccagcgagtg aaagaagaag canaaagaaa gaaaaagaag 240
 tagccaggta agaccgaag ctagttgatc ttatgctgtc caagcgaagt aaggctgaaa 300
 cagtatctgt ggaaaa 316

<210> 1630
 <211> 605
 <212> DNA
 <213> Cyanidium caldarium

 <223> unsure at all n locations
 <223> Clone ID: LIB190-032-Q1-E1-A5

 <400> 1630

cagcgctcgg cgccttaagg gattggagtg gcttattcta tggcttttgc tttgcgtggt 60
 ctagcgagtc tttcaagtcg tttgagtact tggaaacagg gttacaagat tgtaactgtt 120
 gcaaataatt ttgaacgaga aagaggactg cgactgggtga gttccttcca aagtgcgcgg 180
 cagtggactt cgttgcaagg tttgttatgt cgctatagaa gtgacagcgt tgtggaggga 240
 gggaaaaagc aaaaggagtg cgctactgaa agaagtccgg tttctacagc cattcccatg 300
 ggttatgccg atgaatatth ccatcacgtg catcgttggc gtccaggaga tccaagtaaa 360
 cgaacggtag tctatthtggt gttgggaact gccaaagtta tctactgcttg tattgctcga 420
 gtaataatcc tatgcttcat atatactatg atgccttctg cagatgtact ggcagaggca 480
 tccacagaag ttagthttaga cagtattcct gaaggaacaa ctgthtcagt gaaatggaaa 540

agaaagccgg tatttataag acatcgtaga gacggagata ttganaaggc aagacatgat 600
gataa 605

<210> 1631
<211> 255
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-032-Q1-E1-B1

<400> 1631

ggatcacgta aattaatccg ataaaccgag aaccttacct cctcacaaaa aggtgttgca 60
cggctgtcca aaagaacttg ctgtgaaagt gagaagaacg tacgagaaaa gccaaagttga 120
ggaaaagaag gcaagtanaa gggcgggccc agaaaagaaa gggcgtaaga cgtgatacag 180
agtaggaaga aaagagaaga gagctagaaa ggaggtaaaa gaagagtaaa aggactagaa 240
gacgtacgga attca 255

<210> 1632
<211> 351
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-032-Q1-E1-B2

<400> 1632

ccacacgtcc ggcacgcggt ggcaaatttc attcattcta tttatagcca cttttgcaac 60
ttgacagttt tgtagttcga agataatggc agttaggcaa tgtttgctta ttttcatatg 120
tctttcagct ctgtaggtt caactttggc tgcttctggt gcaacgtcta tttactcgtt 180
gcttcagagt aaaagagact atacttttac agtccaaagc atagagctgg ctaatctaac 240
agacgtatac aacagcagtg tattggactt taccttcctt gcttccaatg acactgcttg 300
gaaacaatcc agagccaatg tcaactggtgc acttagtgca gcanaacaaa a 351

<210> 1633
<211> 297
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-032-Q1-E1-B3

<400> 1633

accacatgtc gggactggag accgcctggg acagtcgtca tcgatgttgg aatcaattcc 60
gttccagact cctcgaagaa aagtggatat cgattgggtg gtgatgttga ctttgatgat 120
tgcaaggacg tttgcagcat gattacacgg gttcctggcg gtactggccc aatgactagt 180
gctatgttgt tgagaaactg ttgtgacggg gccaaagaag catttgggct tgcctagaga 240
aaaacatccc agatttcgat attaccacca aggtcgggtg tttaaaagtg tccatgc 297

<210> 1634

<211> 271

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-032-Q1-E1-B4

<400> 1634

tccgcaaaca gcatgtctac tggaagaaca ctagaccgtg gattggaagg ttagcagtga 60
atattcaaaa ggtggcaact cttctcaaga aggggggttca tctcctaaat tgggtagcag 120
tccttcaaaa ctaagcaaaa gtcctcgcgc tcaagaagtt tggagtaaaa cagtgcattc 180
ttggggggcgt tcttactcag gaaaaaaacg ttatgacacc gtggagaaaag acacanagaa 240
agaacaagta tatttgagat acatgatctg t 271

<210> 1635

<211> 412

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-032-Q1-E1-B6

<400> 1635

cgggtatgac cagcgctcgg cgcgacgctg ggagcggacg acatggggtg agaagtttct 60
tttccaactt ggtggagaaa caagatggca tgatctggag ttttttctgg aagatgtctg 120
tactgcactt gcttgtttat tttcttagaa attcagcggc ttgaaagata aagttgaaga 180
cacttccagt actgttggtg tggaagatgg tgacaacagt cgggtggcaac aagcgttact 240
tgaaagtttg cgtcatagtt gggaacctcc tagagaatgc gccacacatg atgacgttat 300

tgagattact tctttggaga gactgtacag agtctttgaa agatgctaac tcttttcgca 360
 tttttttttc gatatccagt atcgtgataa acgtttctta gtcaagaaga tc 412

<210> 1636
 <211> 125
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-032-Q1-E1-B8
 <400> 1636

gtcgcctcct tgtgtgtcgt gcaaagagcc gcataaactc tatgactcat actaccgact 60
 tttactgggc actacgcata gatcaactgt gtcttaccat ctacgttcca acgttgaccc 120
 atccc 125

<210> 1637
 <211> 175
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-032-Q1-E1-C1
 <400> 1637

gcaaaggtta aaacggtttt aaatattcca ttgaaatcag atgacggaaa aaatggcatt 60
 cttatatcat cattaaaaaa ggctgaagaa aggaacgctt tgatccttcg cgtttatgaa 120
 ccacttggtc gccactgcac tggcattatt cgactcgctc agcagtaacc tgtgg 175

<210> 1638
 <211> 276
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-032-Q1-E1-C2
 <400> 1638

ccacacgtcc gccacgcgt ccgcaagtgg atgaaagata ctgcattttc agaaagagag 60
 tggcaaattg aaaagacgga tcagttaaag ccaatagctc aagaactggg ttgtagtgtg 120
 gctcagctgg ccatagcttg gtgtgcagcc aatcctaacg tctccaccgt tatcacagga 180
 gctactaggt tggaacagct ggaagaaaat ttcaaggcag tgagtattgt tcctaaattg 240

acacccgaag tcatgagcag aattgataaa attgca

276

<210> 1639
<211> 317
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-032-Q1-E1-C3

<400> 1639

acgcgtccgc cacgcatccg ccacgcgctc gccacgcgtc cggaaaatgt taagttgggt 60
gggtcgttgg tgggacagtc atgtagtaga aatggcttla gacaatgtta aaaatgagca 120
gatggaaaga atccgcaaga caattatttc aagggtacca gacgttcta cegtgggtga 180
aattggagca agtcaagtc tcaatttcct gcactaccct tcttatgtga aggatttgac 240
agttattact ttacaagaag aactcagcan aagagctcga caanaagcac aacagagaag 300
tctgaatgtg catcata 317

<210> 1640
<211> 196
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-032-Q1-E1-C5

<400> 1640

ggcctaagtg atatccttga gaacttactg taggaagacg tcaacgtagc ctacctttgc 60
atatcataaa ccttggtcgt agagacggag cgtatatatc tggatcaagt cgacgagctt 120
ctctttctgc tttcgtcttt gccgtcctca tgagcgtgga acgaccgcca gtatagtact 180
atacggctgg ccgagg 196

<210> 1641
<211> 249
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-032-Q1-E1-C6

<400> 1641

ggaattccgg gacgaccacg cgtcggggat cattccacgt tggtaaagat agacttgtct 60
 caaggcagct ttaaagtact ccaagactgt gacaaagatt tagaatgtga tcataatacc 120
 aagtttcagt tggaacttat tcagtatggc ctcttttcac ctgggttttg gacgagagaa 180
 aatgttctgc tcttctatct ggagctcgtg tcaggtgtat tcataaggga actctctact 240
 tttcacaca 249

<210> 1642
 <211> 596
 <212> DNA
 <213> Cyanidium caldarium

<223> unsure at all n locations
 <223> Clone ID: LIB190-032-Q1-E1-C7

<400> 1642

accacgcgtc cgcaaactgt agaacagaag acttgctaca agacagtagc agttcctaca 60
 gagtatcaga aatattgtta caagcaagtg gaacaggagc aagttgttca aaagagctgt 120
 cccacttatt attcagtaca aaaggtgaaa tatcagagct gccctactta tatcacgcag 180
 ccaactatca tacccaagta ctgcagtatg tcggtctctg aagagtatgt acagcaacag 240
 caatgtgtaa agtatgtggc tcaacaagtt atcgcaccca aacaatgtgt caagtactat 300
 accgagcaga agattcaaca aaagtattgc tctcgctatg ttactgaaga agaagtacaa 360
 agcaagcagt gcatcaagta tgtatctctt cagaagatca agtacgagtc ttgctctgct 420
 caatatgaag ttcaaaagat caagcagcaa caatgtacta tgacagtctc tgaacaatac 480
 atacagcccg atacttgcta caggtatgtc nctgaacaac atttggtgcc tcatacttgt 540
 tacaggtatt attctgtacc caagtttatt gaaaagtgtc atcctcagta tgcaac 596

<210> 1643
 <211> 247
 <212> DNA
 <213> Cyanidium caldarium

<223> unsure at all n locations
 <223> Clone ID: LIB190-032-Q1-E1-D3

<400> 1643

cgtcggccca cgcgtccgag canatactga gaactggaag aacgtttgtc agatggagtc 60

caattggtat ccttggtact aacgctgtgt gtncccagta atagctgctc ttttatggga 120
gcttactttg agaatttaac tttttgtcaa gaaagaattc atacactttg ttgtagtctg 180
gaatggactg aagcgtgttg tgttattgtt tgtaacaagt acaagaataa tacgtactct 240
tatttct 247

<210> 1644
<211> 363
<212> DNA
<213> Cyanidium caldarium
<223> unsure at all n locations
<223> Clone ID: LIB190-032-Q1-E1-D4
<400> 1644

cggcagaaat ggcgacctct tatggtgttg tcgactcctt gaacacgagg aaaaaaatgc 60
tccttgtccg gaaccagaga aagaagaaga aactgccaaa gtaaaaacaa cgaatgaaga 120
tgaaagtgat gacatcgctt gtgcaacctg ttttgagttg ttggtgcctg nggatggggt 180
tcttgaactg ccgtgttcgc atctatttca tagtgactgt atcgtacagt ggctactana 240
ccaccaacac tgtccattt gtcgtacttt gctgccacct tttgactttc acggtcagtt 300
tgtttcttct cancaaaacg gacacttgat acaagtggga gaaaacggta ctcaagaacg 360
tcc 363

<210> 1645
<211> 522
<212> DNA
<213> Cyanidium caldarium
<223> unsure at all n locations
<223> Clone ID: LIB190-032-Q1-E1-D5
<400> 1645

cgggatcacc acgcgtcggc ggacgcgtgg gcggacgcag tggggtcagt gtaaagtttg 60
tcgacacaaa agtagctttg tacgatatgc tggaaatttg tcgaaagcaa agtgtacagc 120
agcggtgcaa gagcctttgt cgtttgaacc tagctcagta aattctcatg ttggtataaa 180
ggaggaactt gcgataggtt tagaactacc ttgtggtgca aaaagggttg aggatgcacc 240
ttgtggagat ggtgccaaact gtccttttgt aagatatcaa tgtaaaaggt acttggccgt 300

tataccaacc tgtgtttcca actaacgtgt gacattgcat tagaggatcat attataaaag 360
 ctataaaagg aagtcctgtn tgtaaagctt gtcctttatg taaatatgac gctgaagctg 420
 aactttgtcc ggaacttcgt cgatgggtcaa ggaaacgttt atctgtagaa acgatgcaga 480
 gaatagcttc ccgaacgggg tggtacctgt ctatcaacct tt 522

<210> 1646
 <211> 451
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-032-Q1-E1-D6
 <400> 1646

cgggatcacc acgcgtcggg ctttgttggtg ctgagcgaga ggcaagggtgt tatcatggca 60
 aaggcagtga gaattggtgc tgaaggttac aggttaaagt tggacgggtgc agttcaagag 120
 atagacggtc gttctgtagt tctggtagat gtggatagta ttaccctct catgtttgga 180
 ggtagtatga aagaaaacgc caaattgttg gatgccaagt ttctaacgaa gtattatgat 240
 gagaacaatg acttcttctt cttgtcgact agagaagaga agacaatgtc tgtgacgttg 300
 caacttgcca gcgaatatgc agagctggta gatgaccaat tcgtgaacgg cttcttcgag 360
 aatgctctgg agtccgctca gaagacgtct taatttgtca agtagagtgt actgtgcgta 420
 attctgtgtg tagttgtctc tgtgtgtgtg t 451

<210> 1647
 <211> 384
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-032-Q1-E1-D7
 <400> 1647

cgggatcgac cacgcgtcgg actagaaaga gtgaggagtg gaaaaaactt ggtttccagg 60
 gattggatcc ttgtacagac tttagaggag gtgggttact ggcattgcag caacttgat 120
 attttgcaga aacgagaaga gagttggctt taaaaatgtt gaaagaagcg agtgacagtt 180
 atccttttgc ttgtgttggg attcattgta ccgcagctat tgtgcaactt gtccatgaag 240
 actatttggga tatgttgggt tatgcgtgtt ccgaagaaca agccttcaaa gtcattccag 300

aaagatatattg tgaactgtgg ataggttttc atcgcagttg gaagaatcag acctgggaag 360
atagcatgtc gtttcaaadc tgtg 384

<210> 1648
<211> 234
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-032-Q1-E1-D8

<400> 1648

ggaattccgg gatcaccacg cgtcggcttg attccaattg gcaaggcgaa gatcatgcgt 60
gaaggaaaac accttacaat ggtttcattt tctaaattag ttggcttttg tttgcaagtt 120
gcagataaat tagcatcaga gggtatagaa tgtgaagtca tcaatcttcg ttcgattcga 180
cctatggata ngggaactat catccgttca gtgaaaaaga tcatcgtctt gtac 234

<210> 1649
<211> 217
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-032-Q1-E1-E1

<400> 1649

taacctaaat tggatggaac caatccaaaa ttggccaata ataaccttat taattccccc 60
ttttggttgg ttaaccgttg gccaaatttg ggtggtttcc tgggaacaat tggatcaatcc 120
acaaccacca attgcaaaag gaaggaagga agaactctcc aagaaagaaa cccacagtta 180
aacttgaaca accaaatgca acaaaaaaca cagaaaa 217

<210> 1650
<211> 367
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-032-Q1-E1-E3

<400> 1650

tcactacgag gtttagtttt cagttgtggt gaagactttg ttttagcgact tgtgtgcaaa 60
aatgggtcaa cttgttgtat actgatgagg gacgaaacct gttaaaacgt taccaactca 120

ttttatatgt tgctatgttg gcttttctctg ccactatttt ggggcttatg gggaatccca 180
 tgtttaatct ctatctaatt gccaatgaat atatacaccc ggatcctagc gaaccttttg 240
 taccattga cacagtgaag aacgtcactt tctacaagtc tctctccttc tgtgacctggg 300
 gtgtcacacg agatcgtaca cgtggcatgc attccacttg ccgatgggtc attgccctag 360
 cttctgt 367

<210> 1651
 <211> 150
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-032-Q1-E1-E5
 <400> 1651

cgcgtcggcc acgcgtcagc tcacgcaccc gccacgcgt ccgatttata gataaaatga 60
 gtaatcagat cgcgtctatg aatgagcgtt tcagtcaact ttcgagtttg tcggaatgca 120
 taggaccctt ggtcccaacg aacgttcacg 150

<210> 1652
 <211> 309
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-032-Q1-E1-E6
 <400> 1652

attgggtggtt gggcgacagt agaggaacgg tttccacgta tacttgtagg aaccaggact 60
 gtagtaactg gcttgagcaa ggtgtttggt caagtatagt tattgtagtt gtagaggggtt 120
 gttgaaataa aggggacgag ttgtgagact taaattccta tctaccgtaa ccgagggacg 180
 aaggtgtctt tctgacagtg gacttcagtg gccgcagtgt ctcaagtttt cgggttggtt 240
 ccgtccaagt aaccgcactg ctgtacaac ggcaattcct ctcacctgtc accgccacgt 300
 ccaaaccct 309

<210> 1653
 <211> 371
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-032-Q1-E1-F1

<400> 1653

cgggcttggt tgtggaattg gaatcattca acttcgtggt ggtgggtggtg cctttggtgg 60
tccttggtggt aaacctaacc cactaataac taaaatggtt cagccaataa ttgggaaaat 120
ccacctccaa atttatggaa aaggaattct caattgtcaa tccggtttgg caaattcggg 180
cctaatagaa aattacggtt aaaccattgg taaaaaattt tccggcaaca aaccaattc 240
cattgaatcc aaaaatttca attaaaaaaa ccaaccagaa ttgcaaaacc tcctttccgg 300
taaaaaagtt cccgtaataa tcctccttcg aaaaactttg gcaaacatta aaataatttc 360
aaactttggt t 371

<210> 1654

<211> 174

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-032-Q1-E1-F3

<400> 1654

ccacacgtcg gccacgcgt cgggagaga gagagagaca gacagatggc caacgctggt 60
caagatggcc ttgtgcaagt caacanacat agaaaagtaa agagattgca agaagataat 120
atthtgaata gagcatacac aaccagagag tattctgtct ttgaaatcat tgtg 174

<210> 1655

<211> 628

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-032-Q1-E1-F6

<400> 1655

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gctgcctttt gtgcagggtg tgaaaaagtc ttatctccta cgagttggtt acaattttta 120
ccggaagagt ttgagtctct gttgtgtggt cctaattttg aaagatggga gatgagtagt 180
ttgattgctg ctaccaaagc cgatcatgga tacactcatg aaagtctctg tgttcaatat 240

ttgtttcaag ttctctcgac ttataatttg gaagagcaac gaatgtttct cacgtttgtg 300
 acggggcactc cacgactccc tgttgaggagg ttggcagcgt tgaatcctcg tttgactatt 360
 gtaaagcgga caccggaagc aggtcgaagt ccggatgagt gtctacctac tgtgatgact 420
 tgtaccaatt acttgaaact tccgcaatac tcttcttatg aaattaccaa ggaacgattg 480
 gaatatgcta ttcgagaggg tcaaggaagt tttcatttat cttgatgggtg aatacttgta 540
 ggtcccattg gtanagactt tacatgcaat atatatatat atatacgtac atatatatat 600
 aatgggtgtg tgtgtgtgtg tgacacac 628

<210> 1656
 <211> 475
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-032-Q1-E1-F8
 <400> 1656

acgcgtccgc ccacgcgtca gggggcaagg tgtgtttgtg tgattggttg gtagaaaggc 60
 gcctattttc aaagagtcca acctagttag aaaacatgaa tccggaatat gactaccttt 120
 tcaagttggt gctgataggc gactctggag tgggaaagtc ttgcctcttg ttgcgttttg 180
 ccgacgacac ttacaacgag agttatatat cgacgattgg agtagacttt aaaattcgca 240
 cgatagaact ggatggaaag accgtcaagc ttcaaataatg ggataccgct ggacaagaac 300
 gtttccgcac taccacttct tcatactatc gaagtgcaca cggcatcatt aatgtgtatg 360
 acgttactga gcaggaatcg ttcaacaatg tcaagaactg gttgcacgaa attgatagat 420
 atgcgaatga gagtgtgaac aaacttttgg ttggcaacaa gaatgacttg acgac 475

<210> 1657
 <211> 167
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-032-Q1-E1-G1
 <400> 1657

atgggtttggg tggccgcttt ggccgtcaag aaaaggactt ggtataacca atattaacca 60
 aatggcaaa aattaaaatt catacaaaca acaacaaatc caataaacc aataaaaccg 120

gtatcaagca acttcaaaag aaccggttcc aaggaaaaaa ggggttg

167

<210> 1658
<211> 373
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-032-Q1-E1-G3

<400> 1658

ggaatcaccg ccgatggaac agatgtgttt gttcctttca agattttatt acctcttgtc 60
aaaccaaagg atatcgtttt aagcggttgg gatctctccg gctataaactt ggcaaaaact 120
atggattcag cgcaaactct ggaaccagat ttgaagaaaa acttagacca tatctagcag 180
atatgaaacc gcttcttgga atatttgatg aacagtttat cgcaaagaat cagttgcctc 240
gtgcggataa cgtcatanaa acaagtgaca aagcacagca ngtttgaaat tatcgacaag 300
acattcgana gttaagcaac aacatcagtt ggactttggt gttgtagttt ggactgcaaa 360
ctctgaacgc tac 373

<210> 1659
<211> 228
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-032-Q1-E1-G4

<400> 1659

ccaacgtcgt cgagcctggg cctacgattg cctgccttct ccacatcgtg gttgtccttg 60
aaacacgttt agacagattc aaatggctgc agtaactttt acgagacaga atactgatgt 120
accgggtatc tcatacggag aaaatgctcc caacaacttt ggagttattg ttgtccacga 180
gtggtggggg ttgaacgaac tgatcaaaat acgagcacia gagctgag 228

<210> 1660
<211> 120
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-032-Q1-E1-G6

<400> 1660

catacatatt ttgtgggttc gataagtgggt tgtctaggtc gacatgtatg atcaaccgta 60
gcgctatctg aagccttttg atctgcctac attattgggg gataaatgag tggtacacgg 120

<210> 1661

<211> 121

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-032-Q1-E1-G7

<400> 1661

cgcggtggaac agggagagga tcaggatctc acttatggaa gacgctaagc acgttatatc 60
caactgtgaa ctacaaagac tagcagatga tgtacaactt gacgatcaag ttgtacaggt 120
a 121

<210> 1662

<211> 247

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-032-Q1-E1-G8

<400> 1662

aaatagagga aagcaatana agaagaaaga gaaaggaaaa aactgagtat caggaagaaa 60
agagggagta gatgaggaaa gaaagatcaa ggaagtaaga gtaagagaag gagtaatgtg 120
aatgaaagca ggaaagtatt tgaagaagag agtgtaaagc gcgtaccttt tgcaaaatgt 180
cccagcgagt gaaagaggaa gcacaacgac aagaaagact agcaggtag accgaactag 240
tgatcta 247

<210> 1663

<211> 347

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-032-Q1-E1-H3

<400> 1663

gagcagaatg agcataccac tcgagaattg gagttatctt catcaagggt agctatattg 60

aaaaacaagt taaagttggt acagcgaagt tgggaagtag atttcagtga gattaacaaa 120
 ttagaaaaga ttggattcgg tgcctattca gaactattta aagcagaatg gaaaaggacc 180
 attgtagctg ttaagttgat gaaagctcaa gaaacttccg gaaaagtcct gcgtcagttt 240
 cactaacaag tgaatacact ttccaagttg acacatccga ataatggttt aattaagggc 300
 ccctggtgaa agccaacaaa tgtctcaata ataacggaat ttggttt 347

<210> 1664
 <211> 289
 <212> DNA
 <213> Cyanidium caldarium

<223> unsure at all n locations
 <223> Clone ID: LIB190-032-Q1-E1-H6

<400> 1664

gagttgcaca aaagttaagc ttttcgcata taagtttggg agaacagttt cgattagaaa 60
 gtaagcataa tagttggctt cgttctatcc ttgaagaagg aaaattgcta cctgatgact 120
 ttgtgctgaa gcggctatta agtatgattg aaagttcgtc ttccaactat cgagggtttta 180
 atctcgatgg ctttccaaga aactcgnac aggctgtatc gttgaacaat ttgtatgaag 240
 tggatgctgt ttatcgtctt accttgcgtg aagacatttt aattcaaaa 289

<210> 1665
 <211> 137
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-032-Q1-E1-H8

<400> 1665

cattcaacga taccttcaac tccaagtgat ttacatcgta aacacccata tactcatgga 60
 atacgcttgg tatctcgcac aaggatcaca ctgacactca agtgcacgtc acgtcgtgcg 120
 acgaccgatc cgatgac 137

<210> 1666
 <211> 432
 <212> DNA
 <213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-033-Q1-E1-A1

<400> 1666

ggaattccgg gacgaccacg cgtcggacag cttatgagaa tgccaaggct ttggcacttg 60
ctggtgaatt ggagtcttct ggagttgtgg ttcanagcat aactcctttc ttcattacga 120
gtgaaatgag caagatacgc aaatccagtt tggcagttcc ttcagctgag cgatttgctc 180
gagatagttt aaagagtgtt ggatatgaag tgtcttgcaa tccttattgg tttcatgaat 240
tccttgcact agttatttcc tatttacctt tgaaactaca gattcgctat gtagccaagt 300
tacatcgtgg ccttcgtgaa aaaggattgc gaaagatgct ttctgcagaa aagaagagta 360
aaatatgatg tggngaataa tccttgagaa aattttgtct atatatataa atttaccctt 420
ttttttgtat tc 432

<210> 1667

<211> 245

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-033-Q1-E1-A2

<400> 1667

ccaagcgtcg gtcttcattc accggctgta acgagcatcg aatttttgaa aaagaaaatg 60
gaaggcttca aaaagtctgg tattcctttg gaacgcttat ggattaatcc agactgtgga 120
ttgaaaacga gacaatggga agaagttatt ccttccttga gaaatatggt ggatgttgct 180
gtgcaattgc gcaattctgc aaagaatgga atataaactt caataaactg ttgttgttgt 240
tgtgg 245

<210> 1668

<211> 375

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-033-Q1-E1-A3

<400> 1668

ccgatcgagt tcgatcgctc tcatgtcgaa tgtttcgaaa tcaatacgat accgatgtta 60

ctacttttag tcctcaagga agacttcaca agatagaata tgcccaagaa gcagtaaaac 120
 aggggaagtgc agtagtagga gtacgacaca agaactatgc tgtgttggct actctgaaaa 180
 gaaccacttc agaccttgct tccactcaaa agaaactatt tcgcatagac gatcacatan 240
 ggatggctat tgctggttta acagcagacg ctagattgct ctctaaatat atgagaaccg 300
 aatgcctcaa ttataaatat gtatatgagt gtcctatgcc tctttcccg ntgggtgcttc 360
 gtgtcgcgga taaac 375

<210> 1669
 <211> 408
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-033-Q1-E1-A4
 <400> 1669

gaccacgct cgcgccacgc gtccgcncac gcatccgcca cacgcgtccg ctcacgtcgc 60
 cagtcaccaa ttctccaaaa ttgcgaaaag cataaatata aaagatgacc aagtgccttg 120
 ttgatgacta aaattagttg ggtaagcaag gcaatgaagt agtcaaattt acaaagtatt 180
 cttagatctt agaatattgt gtaaagtcgt ttttactgaa aagctcacia ccaatttttc 240
 ctcaaatttg actctaagtc gatacctaatt gtatagaatt ccgagagtaa tggaaattta 300
 aacaattgct atggataaag tcagatgtta cgtaattctga gagagagaga gagaatgaat 360
 acaaggcaaa agaatatcag catttaactg tgtccaagta caagctat 408

<210> 1670
 <211> 448
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-033-Q1-E1-A5
 <400> 1670

aaacctttcc tttgttattg gagcctactc aagtagaaac tatagaaaca gaatataaca 60
 aggaatttat cttgcgcatg attcctagac tagattggaa cctgggtcga caagtaagta 120
 aacagtttgc gtttggtgaa ctgccaccag tagctcccca caacgacaca acggatgaag 180
 aaactttacg attgcttcac aagttgctat tggagacgca tatcaaggaa ggagttctca 240

agagtcaaga tggaactatt tatccgataa aagatggcat tccaaatatg ctcataacac 300
aagtcaacca tgacgagtaa agaaaaatag atatttggtt attttcaaaa aaaacttttt 360
tgggtggagtt tatgctgata ttgatcccaa aagcaatttc atcttttgat acacttctcg 420
atgaatttcc tgggtgcgcg attcttgg 448

<210> 1671
<211> 432
<212> DNA
<213> Cyanidium caldarium
<223> unsure at all n locations
<223> Clone ID: LIB190-033-Q1-E1-A8
<400> 1671

ccacgcgtcg cgccgaatac aagattagtt gatagttatt tagggttggt gaacactgct 60
tctgcaggtt tattcgggta tgataaagaa caagcgagaa cgggaggttg gagagttcct 120
gaaaagggttc tttgttccac tgccttggtt ggtggttggg tgggaggttt tgtggctatg 180
aaaaagtttc accataagac aaagaaacag agctttcttc aaaagtatta tgcctgtggt 240
gcagcaaagtg tangaatgat aggattgggt gcagcaacaa caaagcttcg tggacacttg 300
caacgtcttt tgcgtagatg aatgtgagag agagagaaga tgtatgcttt tcgttcaaag 360
aatagtgtat cttgatcttt ttattcgaca agtcattata canaatcaac aacaaagcgc 420
ttctttcggt tc 432

<210> 1672
<211> 400
<212> DNA
<213> Cyanidium caldarium
<223> unsure at all n locations
<223> Clone ID: LIB190-033-Q1-E1-A9
<400> 1672

tacggtcggg tatccgggtc caccacgcgt ccgcacacgc gtccgcgcag cgtttgcaat 60
ttttgttggt tgtgagtagt gtcattggcag agcaacaaag aagtgagagt actgaagtta 120
gaagtgtgc agttcccacc cttgtataa aggggttggt gttttatggt acctcttcca 180
ctcttgacat gtgctccaag tgttatagag aacatttgcg ccaagaggaa caaagacttc 240

aagtggagtc tgtatgtcag cagcaacaac aacaacaaca acaaaagcag gataaggaac 300
aagaaatgac tcaggggtcc gagttgcacg acttgccctc taaaaaggag caaggggaag 360
agacgtcngt ggaagtggct caacctagcc agggttttgt 400

<210> 1673
<211> 232
<212> DNA
<213> Cyanidium caldarium
<223> unsure at all n locations
<223> Clone ID: LIB190-033-Q1-E1-B1
<400> 1673

gtcggactga actcttttan aggatatgat tgttcatgtc acacgggagc tatattttgg 60
gccactctan gcttggattg tgctatatcg ttgttttcta ttttatgtgc agttgcattg 120
tanatggata cggatataaa tataaatatg catatacaca tattgatata taagagtgtg 180
tttatgtgtg tgtgtgtgtg tagtcttgca aataaatagt attcttgtgg tg 232

<210> 1674
<211> 405
<212> DNA
<213> Cyanidium caldarium
<223> unsure at all n locations
<223> Clone ID: LIB190-033-Q1-E1-B11
<400> 1674

cagacgcgtg ggtgaaagga gggtcgacga gctcagcttg aagaacaaag aacttgcggtg 60
gggttggacg ttatttatga acttggactc tattgacaca ggaattaatg ctctttttga 120
cccgtttgca gacgcctcac gtggagagga cgcagcagta accaaaaata tagtgcatat 180
tcgcttgcaa caaagaaacg gccgcaagtg cttgacgacg attcaagggc ttgacacaaa 240
attggatttg aataaaatta caaaggcctt caaaaaggag ttttgttgca acggttgtgt 300
cgtagacgac gcagaactgg gaagagtcac ccaactgcaa ggagaccaga gggataaagt 360
caaaaagttt ctagttcagg agaaatttnc tgaaaaagac ctgat 405

<210> 1675
<211> 396

<212> DNA
 <213> Cyanidium caldarium

 <223> unsure at all n locations
 <223> Clone ID: LIB190-033-Q1-E1-B2

 <400> 1675

 ccgggtacac caagcggtccg cgcgacgcgt gggcggacgc atgggcacac acacatagag 60
 agagaatggc attgtccaca gtatctcaat ggctagtatt aggatataca cttttattaa 120
 tgttgggagg acttgtinga tatgtcaaag cgggtagtgt tccttccctc gttgccagtt 180
 tacttagcgg ttttatttta ctttatggag tatatttata caactggaag atttgtttcc 240
 taacgctcat cctgttggtg gcggttttcc tatggcgatg gtcaaaaaca ggcaaaataa 300
 tgccctgctg accattagcg tgtttgacag ctgtaacttg tttccttttg tggttggttg 360
 agaataataa agctacttga ggtttttcna aganaa 396

<210> 1676
 <211> 440
 <212> DNA
 <213> Cyanidium caldarium

 <223> unsure at all n locations
 <223> Clone ID: LIB190-033-Q1-E1-B3

 <400> 1676

 gtcggcacac acacatatat atatatatat atagatggat agatagatgg atagagagag 60
 actaacttgt gtatatagac aggagcaatt atcaacggcc aacgtgtgga tgcaactctt 120
 cctaccatca aatatatatt agaaaaagga gcacaaagca tcgtacttct tttccatttg 180
 ggtcgaccag aaggaaaagt ggacaaaaag tattcgtaa aaccgtagc ggaatattta 240
 caacagcggg tgggtcgacc ggctgtcttt ctggaagact gtgtggggcc tcaagtagag 300
 caagcttgta aagaaccggc gcttggatct atctttctat gtgaaaactt acgtgtccat 360
 gtataagaag aaggaaaagg agtagatgan gaaagaaaga tcaacgaagt aagagtaata 420
 gaaagagtaa tgtgaatgaa 440

<210> 1677
 <211> 545
 <212> DNA
 <213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-033-Q1-E1-B5

<400> 1677

cgcgctcgcc cacgcgtcag cccacgcagt ccgagcggat tcaaatttgg gatctctttc 60
agttttattcg gacccaatga attatttttg aaaaaatcgg aagtttcgag ttccagaccc 120
aatcctgagt ccatcttttg agtctcagat taaacgcagg cctcaaaaga aaaaacagta 180
ttcacgtgcg tctcncgcga agttttgtca cttttgtgct cgtgctgcca gtaagaatat 240
cagaatggtg gtttgttcga atatacgaat tggcatgtgt ctcaaagtta cctgtgaaaa 300
gtgctttcgg cagaacagtt ggaattttga agaagccttt gaaaatccag actcgtggat 360
atgcactcat tgcgtgggtt cgtgtcctta tcgtgcacaa tggtctcatc tatcaacgta 420
ctaatacatc aagacgagtt agccgttttc tcatgaaaaa gcagaaagaa ttgaacgatg 480
agtacgttga gacaagaagc tgacgataaa agacgacatt gtttagaatt cagttttgaa 540
ggtta 545

<210> 1678
<211> 250
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-033-Q1-E1-C1

<400> 1678

actcgcacgc tcgccacgca cgaatgggct aacataagat caagacaata aaacttgaag 60
ctcatataag aaacattaca tgcattctac cacaacacat atgtaatgat aacacataga 120
cgaaacccaa tctacaatag ttagagaaaa tctaataaga ggggtaaaat aaacatcata 180
gatagaacac tataagaaaa ctaacatttg cggaataac agaaataata gcacaagata 240
aaataataca 250

<210> 1679
<211> 243
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-033-Q1-E1-C12

<400> 1679

ctgctcacgc gtccgctcat gcgtcagctc aagcatccgc tcacgcttca gctcacgcgt 60
cgggcgacgc gtgggtcact tcacaacttt tattgataca cacctcgagg ggcatgtata 120
tttcaactct gcataattca cgggccttaa tgacttctcg tctcaaccgc aatccacttc 180
ggctcaccta gcttctccac tttccatcac ataacgcttt catcaacttt tacgacaact 240
cat 243

<210> 1680

<211> 431

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-033-Q1-E1-C2

<400> 1680

acagacagat ggccaacgct ggtcaagatg gccttgtgca agtcaacaaa catagaaaag 60
taaagagatt gcaagaagat aatattttga atagagcact atcacaacca ggagatgtat 120
ttctgtgctt ttgcaacatc cagttgttgg tgaatgcaga aagagctatt ataggaaata 180
ttacttgtcc agaaagtatc gaattgtgtc gtctattagc tggacatata gcagtttgg 240
tcgatgaaca tttggatgac tttcgtttgg aagctatctt gggagcacta ttgtgtactt 300
gttattgtga gtggaagcgt tttgaaggag aaatgggggt acaagaatgg aatgaattgg 360
agaagatatc ttccttagat acttgggaagc ttgtgcttgg tacaagacaa agagtggata 420
atatgttaca g 431

<210> 1681

<211> 89

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-033-Q1-E1-C7

<400> 1681

gagtcgtgat atcgagagag gataggggag tacatagatg aggagtgtcc gaaggagata 60
caccaggaat ggagaagatg ggagaggac 89

<210> 1682

<211> 381
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-033-Q1-E1-C8

<400> 1682

gtcgggtcttc attgaaaata tggaaacgac gggctttgtt tcatcgtatc aaggtgttgc 60
gttacgaccg gcttggagga agcagactat ccgaaaccag caaacatata ccatattgtt 120
cagaaaccac gcaaagtctt cgaaagttag gttatcgata gcccttttca tgcagcaaac 180
ttccaaggat gacgcggaag ccgagaaaca atcgagtcaa cagggctcca aaatgtcacc 240
aactactagg attgcaggty atatcttttt ctttactatt actacggcac tttttgcagt 300
cactctggcg gctactttgt atcgctccta gtttctgcag ggtttactcc cgccttttcc 360
atagaccaag ttgtcggtat c 381

<210> 1683
<211> 406
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-033-Q1-E1-D1

<400> 1683

tccgggtaca ccaagcgtcg gcccacgcgt ccggagcggg ttgaggatat acgtaattct 60
ctgatattag ctctgtttgt aaagtttcca tctggcagat atcggaaccg ttcttaccag 120
ttggacattg tggatagccc agtagaagca cttgctgaga agtggaacga acagttggaa 180
aaagaacaag atgaaactac tgggttgatt agcaccagat tgtcgtcgag ttggcgcttg 240
gcactagttg tatatgtggc acagacagtg ggaagttgta tgtacagaga cttggacgcc 300
gttttacaga aaatacttgg catatcgggtg gagagtgatt cttcaacgtt tctctctcgt 360
ggcggaccgc gtgactcgga gttttacttg taaagtgttt cttttt 406

<210> 1684
<211> 396
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-033-Q1-E1-D11

<400> 1684

ggattcaagt gcagctggta taaaaggtaa agtttgaaag ttatagagtc ttgacagttt 60
gtgttaggat tatctcgta gctttccaac ttgcctcgta ttatttctct tcccagtcgt 120
cacaaaagga agaattattca gccaaagcat agcgtcacia cagctagtgc aaaacgggtg 180
gctgtcttgg aaggtgatgg aatcggtcct gaaataatgt cagtgcacttt agacgtgttg 240
gaagaagtaa cgaggctttt caagtttccc ttaaagtttg aaaaggctcc ttttggaggt 300
gctgctatag ataaaactgg tgatccgttt ccaatagaga ctcaaaactt atgtttatca 360
agtgatgctg tgttattggc ttgtaatggt ggctat 396

<210> 1685

<211> 313

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-033-Q1-E1-D3

<400> 1685

tgtcattgaa agcaccgttc acgttttagtc tatcacctgt gcatgtcata agacaacaac 60
aactgtacaa tctgatactt gaatatgcac gaagaaaagg aatacacaga tttgttgaga 120
tgaatggcaa atggtggata tattctacga cacctcccac tcgaaaggca ctgcggtatt 180
ggatgatcat ggactgcgtg ctgtttaccc cagtcaatga cttacaaacc gccaaagctt 240
atgcgagaag agtagggcaa gcattggaca ccacacctac ggtcgaattg cctacaccag 300
atatttgtgt acg 313

<210> 1686

<211> 331

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-033-Q1-E1-D4

<400> 1686

gtcggccac gcgtccgggc ctttaaggat ttccggaaaa ggcgctcttg tattttgtgg 60
tggaagaaga gagagagcgt ggccaagaca agtatgggaa ggaagaaaaa ggcgccacag 120
acagatattg tcgatcgaat attttgctgg tattgtgaca gagactttca cgaggagaaa 180

attctcgcta gtcacaaaa agaagagcac gtcaagtgtc agtgggtgtaa caagccgctc 240
 atgtccgtaa acggacttgt ggtacatgct caacaagtac acaacgacga agtgacgcgt 300
 gttctcaacg cactagaacg catggactct a 331

<210> 1687
 <211> 257
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-033-Q1-E1-D6
 <400> 1687

aaataaaatt tgaaagaagt aggagtgtag gggatattat aaagtaatga aaaagataag 60
 aatataaata taaaagtaaa tgtttataag agaagataaa tatagaagat gtangtaagt 120
 agaaggaagt atagagatgt agagagaaaag aataaaaaga agagtttattc agcaaaatac 180
 cataatcaaa tacacacata gaacaacgta taagagttaa atgaaacata acacaagatt 240
 agaatgtaat acaacat 257

<210> 1688
 <211> 323
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-033-Q1-E1-D7
 <400> 1688

caacagcatc actacacgtt ggttgtcact tggtgggtgg ttatgtaatg gtagccatgg 60
 gcaaccaccg tggagaagac tttatcacgt tgggggaacc agtgcacgtt ttgagcgtgt 120
 cctcgatttc taacgggcgt caggtatgtg ccaactgcacg tccctttgat aatgcgagtc 180
 tggagattca gtacacgcaa cttgccaaata acaacgtacc tgtcaagctc tgctcatccg 240
 tggtgtgata accttcatca tcctcgta caaggccctt gacacagtgc tccggaatat 300
 cgacgagacc cagatacttc tcg 323

<210> 1689
 <211> 367
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-033-Q1-E1-D8

<400> 1689

atcaactgat ggagtggaga ggggtcaaagt ttatagtcgt ccaaaaagttg cagttttttc 60
cactggaaac gaacttgtag atattggaag tgtacctgct tttggagaga tatatgatgc 120
caacagacct cttctcctag cagcgcttcg tgggttgaat atcgatgtac tagatttggg 180
tagtgtgggg gactcagaag ctcatattat gaagactttt gaaaacgctc tggaagtggc 240
ggacatcggt gtcactattg gaggcgtttc catgggatgt cagcactata tacagatatt 300
attacaacga ctggctaaag tacactttgg tcgagtcaga ctcaccccg gaaagccggt 360
aacttct 367

<210> 1690

<211> 382

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-033-Q1-E1-E1

<400> 1690

ccgggactga ccacgcgtcc gcccacgcgt ccgggagaag atatttggtc gcattcgctt 60
tgtttaggaa caaaggaata cctagagaca gacacaaaac tattacctac aggcagaatt 120
ctgcaagccg agtctaaatc gtatttggac ttaccgaag aaaggctcct aaaggacct 180
cctaaagaag agtctggaat aagaaatggc tatgatcact tttttgtgtt cgataagact 240
ggaccgaaat cgtcattaga atggatgagt acagttcgtc atgcggagtc taaaagaact 300
ttgaaactct atagcgatca acctggtgta caattttata ccggcacgtt tcttcaagcc 360
tcaactatgt gtcgctatca tc 382

<210> 1691

<211> 183

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-033-Q1-E1-E2

<400> 1691

attgaaaatt aacctactga agcacataaa gacaaaaaaa atacataacc acatattacg 60

cacatagaca tcgtaaatga aagaaggaag acacataacg accaacaat ctaagaaaga 120
 gaaagaacaa gaaacaagtg acaagaaaca acaatagaaa taaaaaaaaa aaaaagcgcc 180
 caa 183

<210> 1692
 <211> 308
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-033-Q1-E1-E5
 <400> 1692

tggaacgatg aagtccagt acgttagtcc tttactggct ctcttatgcg tatgttctgc 60
 tctggctgct gaattggcac ctgcaattgc ggattaaccg gtagatagag gatatgagga 120
 accctgctgt accgaatatt gttattggga tgaaatatgt atcactccca cacgcagacg 180
 tacacgaacc tactattacc attattacac aagagatgca gcataggaaa ctgtccatag 240
 aatcgtagaa aacagtacct catcagttta aaaatctgat gcggttcgag ggtatttcac 300
 cacatact 308

<210> 1693
 <211> 449
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-033-Q1-E1-E8
 <400> 1693

ccacgcgctc ggcccatgcg tctgtgaaga aaccaaagag accttattta gctatcttgg 60
 gaggagccaa agtatccgat aaaatacaac tcatccagaa tttattacaa aaagtggatg 120
 aaatgattat cggaggtggc atgtgttata cttttcttcg agtattatat tccatgccga 180
 ttggagactc catttatgac gagcctggat cacatttggt agaaaatatt atgaaagaag 240
 ccaaagaaag aaatgtaaag atacattttc cagtcgattt tgtagtagcc gatcgtatgg 300
 ctcccgatgc acatacagag atacgtatca gagaacaagg tattcctgag catatgcaac 360
 gactggattg tggaccacaa agtattcaac aatttattca agtactgcaa cattlytaata 420
 cactagtgtg gaatggacct ttgcgtgtg 449

<210> 1694
 <211> 371
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-033-Q1-E1-E9

<400> 1694

acgcgtccgc agacgagtgg ggggtggttg ggacgacgcg tctcgtgcgg ttttgtgtga 60
 tatttgaatg gcgaccaaga gaataaccaa agagttgcaa gacttgggta gagaccccc 120
 ttctaacggt agtgcggggc ccgtagggga cgacctctgg cactggcaag ctactatcat 180
 gggccctcct gactcgccat atgctggttg agtggttttc ctcaatatcc attttccaac 240
 cgactatccg ttcaaacctc ccaaagtgc atttaccact cgtatatatc acccgaatat 300
 taactccaat ggaagtatct gcttgatat tcttcgcgac caatggagtc caccactgac 360
 tatctctaaa g 371

<210> 1695
 <211> 452
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-033-Q1-E1-F1

<400> 1695

ccgggtacga ccaagcgtcc gccacgcgt ccgaaagcac tatgaaggct gggaggaaac 60
 tgtcgaatat ttgaggagtg tgtttcgttt gcagggtcct tttgaagggtg ttttgggatt 120
 tagtcaagga gcagccttga gctctctcat ttgtgctatg aaagaacatc cagaacttgg 180
 ctatggagaa ttttcttgca tccgatttgc ccttgttttt tcaggtttcg tttncgtgc 240
 agaagagcat ttgccgttga taaaaacaaa aattcatact cctgctttga tttgctacgg 300
 aaaagctgat gatctggttg acgcttctcg aagtcaagat cttgcccaagt tgtttgtaaa 360
 cgctaccata ttggaacatg aaggcgggtca tttggttcct tctggagcat ctgaaagaga 420
 acaaattact cgctttgtct tgcaacatgg tg 452

<210> 1696

<211> 375
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-033-Q1-E1-F10

<400> 1696

cgcgctccgca aacgcacccg cccacgcgtc cggttgctag aaatatcata gtagaccac 60
gtattgttcc aggaggagga gcgaccgaaa tgtatgtttc caaggcactg gcagaaaaag 120
ccaagtcttt ggaaggtgtt attcagttcc cttataaggc agtttcccaa gcaatggaag 180
tgattcctag aacgttattg gaaaactgtg gggcgaacgt ggtgcgagct ttgacggaac 240
ttcgtgcaaa gcatgctagt ggaaaggata tcccttgggg tgtgaatggc caaacggag 300
acattgtcga catgactcaa tatggaatct gggaacctta tacggtaaaa gttcaaactg 360
tgaaaactgc tgtgg 375

<210> 1697
<211> 312
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-033-Q1-E1-F11

<400> 1697

cacagattcc tgttgatatt cagtggaaga tttgtcatta tatggaagta ttgtgtgaag 60
aatcgccaa agttcccgtt gcagtgattt taaaagtatt ttacgatgaa gatttggttg 120
aagaagatgt gatattgaag tgggtattact ctgaaaacag aggagtggga ggaaagggtg 180
caaggaacaa tgcttctatg ttggttgagt ggttgagaa tgctgaatca gaaagtgatt 240
cttcagcctg attgtgttgt tatgtgagt cttgtttcgt gaaataaaaag cgattccttg 300
ttttctgcac cg 312

<210> 1698
<211> 274
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-033-Q1-E1-F2

<400> 1698

tgtagcgga tggaaaacgg cgtacaacgc aacgtttttg ctcaaactgc tgaagcagta 60
aacgacaatt ccattgctgg acacaccaag ggtacttttg cagtgaaggt acggtcgggt 120
cagatgctga aaggtggagt tatcatggac gttgtaactc ctgaacaagc caaaattgca 180
caggaagcag gtgcttgtgc acttatggcg ttggaaaaca ttcctgccga tattcgcaag 240
tctaattggac tggcaacaat gtccgaccca aaca 274

<210> 1699
<211> 411
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-033-Q1-E1 F3
<400> 1699

ccgggaggac caagcgtcgg ccgacgcgtg ggtggagcca tgaggatgaa tcaagtgatt 60
gcttagttgt gtgaaggaaa taaaatattt gaatgaaaca gtcgttccag ttcaactttc 120
agccaacaac gaataacagt aacaacagtc atagccatac tcttaacttg gaacaaaaca 180
tcaaagactt gaatattgta tctagcgaca gcttatcgca cgtggatcct tgttatgatt 240
ccgaaaaggt tgttatccac gattgcctta ctttatggaa gagaaaatcg tccagccttg 300
tcagcaaata ttttggagtt gaacaggatg ttataacggg tatttatgaa cgtgggtttca 360
agctttggga aggtgctatt gaccttgtaa agttcctcga tactatcaat a 411

<210> 1700
<211> 190
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-033-Q1-E1-F4
<400> 1700

cacgcgcccc agatcaaaga gtaacacatg cacgtaggta tagcgaacgg gtgagtaaag 60
acgtgtgaaa gagtggacga acatgaaagc acagaagaat gtaagaaatg gttagagtca 120
agaccatacc tgacgtaaaa gcgggaatct gagatgacga gagccacatt ggcactgaga 180
aaaggtccaa 190

<210> 1701

<211> 90
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-033-Q1-E1-F5

<400> 1701

accacacaacg acaacatcat gataaaggga ctttctcaac gctaccatcc ttcacacggt 60

accattggga tccctaacat cgtcaccatc 90

<210> 1702
 <211> 430
 <212> DNA
 <213> Cyanidium caldarium

<223> unsure at all n locations
 <223> Clone ID: LIB190-033-Q1-E1-F6

<400> 1702

accacgcgtc ggccttgenc gccatgcctt gagttgtatg aaggctcaag tttgtgaaaa 60

aaaggaaccc attttgaaag aagaagtgga cgacataccg ttatccaagt tatggaaaga 120

actacacaag tctgaaatca aaggctcgac ggggacaaag gaaccaagga aaaaggaaac 180

gaagaaagga gcaacgtcaa agaggactct taciaaaggct tgtggaaagt cagcttcgcc 240

caaaaagaag cccaagggtat cgaaggaaag cgatgacaaa ctcgctagta agaaattttc 300

caatcctggt caaagaagag aagcacctcc gaaaggagac cctcttcgat tgttctatga 360

aagtatgtat gaagaaaaga aacgaaaagg ccaagacgca acacttgag aaaactggct 420

tctgattcac 430

<210> 1703
 <211> 228
 <212> DNA
 <213> Cyanidium caldarium

<223> unsure at all n locations
 <223> Clone ID: LIB190-033-Q1-E1-F7

<400> 1703

ggaacgctct gttgattgaa tgttttcatt ctaatttctt tgtagtcgac accattcgag 60

ggtttggttac actgactggt ggtgcnctg ttttagctct tgccgctagt ctttcgtttg 120

cgcatattatta tcgacgcata agtatgccga tttgtgcaaa cgaagacaca tttttcgagt 180
 gaatgcacaa tgtttgcgac aataaagaat agttgtgtta ttcgttgg 228

<210> 1704
 <211> 443
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-033-Q1-E1-G1

<400> 1704

ccgggacgac cacgcgtcgg acacacaaga caacaatgtc tcgtcacaag tgtttctttg 60
 atattgctat cgggtggacaa cctgcaggaa ggattgtatt cgagttgttc tccgatgtcg 120
 ttctataaac cgcggaataat ttccgtgcc tgtgtaccgg tgagaaaggg tttgggtaca 180
 aagactccaa gtttcatagg atcattcccc agttcatgtg ccaaggtgga gactttacac 240
 gcggcgatgg aaccggtggc aagagtatth acggcaccaa gtttgaggat gaaaacttca 300
 agttgaagca ttcggagccc tttttattgt ccatggccaa tgcgggaccg aattacaacg 360
 gaagtcagtt ttcaatacgg tagtgaaaac accttggttg gatggaaaac atttggtgtt 420
 tggaaagggt gtaaaaggta cgg 443

<210> 1705
 <211> 353
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-033-Q1-E1-G10

<400> 1705

cgagtggctg gattcctacc gttgcagact atcgcgtgtt gacttctgtg gagaaggatc 60
 aaactttgtc caaaggagcg gagatgcac aagaagagtc tgcataaagg actatttttg 120
 tatagttgcc atcatggacg gtttgtgtgg aaagttgtga ttgtgtagag agtgtgtttg 180
 tgagttgtgt gtggtattgt tgttttacgt ctttgtgagt gaccactcgt aggagtgtga 240
 tgaatcctca caaagatgat agaagacaat aaaacgatgt tgttttggta taaaaaaaaa 300
 aaaaaaaaaat ttttttttta aaaaaaaaaa aagaacaaaa cgcgcatcca gac 353

<210> 1706

<211> 360
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-033-Q1-E1-G3

<400> 1706

ccgggatacc aagcgtccgg cgaagagaaa tgctgggtgg agtagcgaaa caagagaagg 60
gaagtaaaag gtaagaaaga ggaaagggtt acgagagaan gaagtagaaa gaagagagtg 120
taaggcggcg tcataataga aatccgaaag gagtacaaga aaagagagag aagaaagaaa 180
agaagagaaa agccgtactg aagaccgaca caggtactcg angagaaagg agaccacat 240
taaggtgaga gaatggacga taaggaacta agcaaaagga tatggtatct gcggtacgct 300
tagaagcagc anaccagaga agaaagcgtt aaagcatgaa agaaaagata tccgaaaaag 360

<210> 1707
<211> 146
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-033-Q1-E1-G4

<400> 1707

tcaacttgga atagttttca cgacancact gtcactcaac taattttctg tgctgactcc 60
attcaatgac gtttctgaat atgacttccc ccatataacc acgtctcatc agataaatac 120
atctattgcc aaactctgat tcacat 146

<210> 1708
<211> 463
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-033-Q1-E1-G7

<400> 1708

accacgcgtc ggcccacgcg tccgctttga aactccgttt cttgatatga accgaggtct 60
ctatcatgaa ccagaatata gtcttccgga atgttacaaa atggaacaaa agccgccatt 120
attgaaattg ggatcatttta ggaagtttca attgcaaaca ttattttata tattttattg 180

tatgcctcga gatgcattac agatacttgc agcagcggaa ctttatcaaa gagattggag 240
ataccacaaa gacttgaagc tttgggtttac aagagcacct ggaacaacta ctccaggata 300
tgaacgaaat gcttttatct actttgatat aactacatgg gaaagaaaac cttttcatga 360
aacgaataga aacttcttgc aagggtttct tctcaaaaat gtgattacgg aagctgtgga 420
acatttagta aattcctctc attcgtcgtc ctaaaatcga gaa 463

<210> 1709
<211> 386
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-033-Q1-E1-G8
<400> 1709

gcgtcggcac ggattgtaat tgttgatgt tggtatgtcg gaaataaagg tttccaacaa 60
tacggaaaat aatgttgaaa acttggaaaa tactgcacac gatacgactt atttagacga 120
agctgacgtc gacgcggaat tggaagcaat gaagagtaga ctacaagaaa tggaagaaga 180
agccaatcga ctgagagaag ttcatagtac ttctgaagta ccttcttcag aagaagtaga 240
ccgacgctca gtatactgg gcaatgtaga ttatggttcc actccagaat aacttcaggc 300
acactttaag gaatgtggga ctattaatag agtaactata ctatgtgaca agtttactgg 360
ccatccgaaa cgatatgcat atatag 386

<210> 1710
<211> 408
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-033-Q1-E1-G9
<400> 1710

acgcgtccgg cactcgacga ttgtcatttc caacaactta tttccaccgt ctgtcaagga 60
aaagtgaatg tcgtggtcgt caatgctcat acgttttgta cacctcaaca agtaaccgag 120
aaaatcgtac gaaacagcaa gtcaccgttg gaaataagat acgaggacca ggatcatcaa 180
ggaggcaatt ggtttctttg tgctttggac caagactgct atgtacaaat ggccaaaggt 240
gtaccgatg aagaatggct tcaattattg cgtcgttggg tgccgaagaa ccaaccaacg 300

atggatagga tatgccttcc ttggatatcc caccagcatc aagtgcccaa ctatgtatat 360
 caagcttata agcgattggg ttgttttgcg ctatcttccc aaattgcc 408

<210> 1711
 <211> 391
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-033-Q1-E1-H1
 <400> 1711

ccgggtacga ccacgcgtcg gggcgtgact tgacgacgtt gggaaccaca tggttcatct 60
 atttctcagc aataggcatt ctctgaaaac tcattaggaa acctcaccct ttacaaccta 120
 ttgtgttttt ccacaacctt tttctggcag ttgctagttt atggatgttc ctaggatatct 180
 gtgtggctct aaagaacact tggatggaag gcggcttgaa agctatctat tgtcnccact 240
 ctataaaaac ttccaaccca ttgacctcat ctttttactc atcttctatc ggttattggg 300
 tgtatgtctt ctacttgtec aagttttatg agctactgga tactttttatc ctcatctgtc 360
 gtggaaagcc actaacgttg ctacacgtac t 391

<210> 1712
 <211> 441
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-033-Q1-E1-H3
 <400> 1712

ccgggtacac caagcgtccg gactagttct gttgaattta tctgtatcgt ttacttgtct 60
 ttttgttgag ttatcatggc acgaacaaaa canacagcac gcaagtctac cggtggtaag 120
 gcacctcgaa agcagttggc aaccaaggca gcaagaaaat ccgcacccgt aactggagga 180
 gtgaagaagc cccatcgtaa ccgtcccggg actgtcgccc tgagagaaaat tcgcaagtac 240
 cagaagagca ctgaacttct tatccgaaag ttgcctttcc aaaggttggg tcgtgaaatt 300
 gctcaagact ttaagacgga cctacgtttc caaacttcgg cggtgactgc cttcaagaa 360
 gcctcggaag cataacttggg cggtttgttt gaagatacca atctttgcgc aattcatgcc 420

aagcgtgtaa ctatcatgcc t

441

<210> 1713
<211> 214
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-033-Q1-E1-H4

<400> 1713

tacctcagtt agactgggag tggcacgaca aggtggtttc ttaagtaaac attttctaaa 60
cctgtctgta atagttgctt tcaattgcag aagttagcct ccgcagggtt ggataatgtg 120
agataaacia caagttgtgc atlgctgltt gtgagacttg cgaaaattgt gttttgtgtc 180
ttgtaacatt ttatataaac acatattatc tatc 214

<210> 1714
<211> 239
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-033-Q1-E1-H6

<400> 1714

catgaattta acgatgtgta ttagtttttc ncttggttct cgactcctgt tggtagcaca 60
acttgttgct ttctcttatt ttgtcaaagc agtcttcttg ttcttcttgc gtccagtctt 120
ttgttcgaga ctagcctgct tgatttgcct tttaaaaaag ttatagagtg atgtatccgc 180
ccctatttgt tgtgttccct tgaacaaaga gataggttgt ttaaagcaag acaaggaaa 239

<210> 1715
<211> 494
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-033-Q1-E1-H7

<400> 1715

ggataccggg acgaccacgc gtccgcccac gcgtccgccc acgcatccgc ttttgtatct 60
catcgtttgg gctgtaaatg ttgctaattg aacaggaagc tgggtgtgagc atggaagtgc 120
ccactattag tgctgcaaaa catgactctg aagatagcca cgaagaagtg aggaagcggt 180

tgagtagagt aagcgctcca ccgtttcccg atcctacttc tctaggatta tctggtttta 240
 gttgcacaac ttctattctt agcgtaatga atgccaaatt attgccagcg aggattgtac 300
 caggaattgt agggcctgcc tttttctatg gtggaacggg acaaattgtg gcgggccttt 360
 tatgttttgt cactcgtaac atgtttggat tgggtggcatt tacttcattt ggagcttttt 420
 ggcttgctgt tgctactttg atcactttgg aagaagaacg aaaactcgtg ttcggaacag 480
 atgccaacca agtc 494

<210> 1716
 <211> 349
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-033-Q1-E1-H8
 <400> 1716

gcgtccgccc acgcagtccg cccacgcgtc cgcccacgcg tccgcggacg cgtgggcgaa 60
 aaagtaagat tgtgcttggg aagtggataa gccatcgta tatgcggagt tgagagaccc 120
 cacttgaaga ctaaatgaac caaagggact atcagtacca ctagtcgaga aaccataccc 180
 ctgcgtgaag ccatacctg gatttcctgc gtcaaccact gaattcagcc cgactgctcc 240
 aaaatatgga tcgttgtagg gctgcacata ctgttggtgc tanggcagta cagcagtatt 300
 tgagggaaca nattcacagt attcgaagtg agggattctg cttgagaca 349

<210> 1717
 <211> 385
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-034-Q1-E1-A1
 <400> 1717

ccacgcgtcg ggcgaaaaan aaagaatgag tggagtagta caaggagcga agatgatggg 60
 agcaggaatg gcaacgatag gtttagcang agtangagca ngagtgggaa tagtatttgg 120
 aagtttgttg aatgcatatg caaggaaccc agtattgaag cagcagttat ttggatacac 180
 gatattaagg tttgcgttaa cagangcagt angactgttt gcattgatga tgagtttttt 240

gatactgttt tcatagtata cgagaaacaa gaagtagaag agaaataaaa gagacagaag 300
aagagttatg agagacaaga tggaagtaat agaagtggta agtggagtaa taatgaatca 360
tatgaaagaa ggaatggaga atata 385

<210> 1718
<211> 515
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-034-Q1-E1-A2
<400> 1718

ccggtataca acgcgtccga cagttctgtc ctgccagtac gatgctttca aaggatgact 60
ctaagaggta tctaataact tgtatattcc atcgtatgac aagaggcttg ttggaaaaaa 120
gcagcggata acttttgtgc tgattttgcg tcttgcttaa gtagctcgct ttactggttt 180
caaatcttgc agtcatcagt gcaaaacatt ccactaggaa tttggactga tcgactaagg 240
caagatgcgt gttgttttgt tgccgggtttc gttgttgttc tttgcctgta ttcggctatt 300
ggttccaggt cctcatacgt actttctgta agagagagtt cttgaaagat gaaagggatt 360
tgcagtaaca gagtcacaaa cagttgtgcc aactccttca tccaattgtg tgttctatca 420
attggaatat gcagtcaaca ttgtgtaact tgatagaaat ttaccaaaga ctacttttgc 480
gatgaaataa taatgaaaca cagagttcac atatg 515

<210> 1719
<211> 244
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-034-Q1-E1-A4
<400> 1719

gcgtcggcca ggcctccgct catatacttt atgcttggac aatgggttga aagactgctc 60
tgagttgcct ctttctctcc ttccttatcg ctgccgcagt tgcagccac gtactttcag 120
aggagagatg gggatatgct cagcacaccc aacaacagca acagtgccaa caagtatgta 180
aacagtatgc atactaccag agtcgagtcg gcacttccgt aaccacagac agcccatact 240
ggaa 244

<210> 1720
 <211> 392
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-034-Q1-E1-A5

<400> 1720

gcgttttgaa ttgtcatctc aaaggaaaga gcaaacgcag aatggagaaa ggaatgagag 60
 aatcagaact tacaactatt tgcagtcaag agtgacagat catcgttcag gtttcagtgt 120
 acaagggtgca ggatttgaag atttattgaa tgggtggagag tccctggaac aaatgatagt 180
 tagtgtttgt gagcgagatc gacaagatct ggtagacgt gtttgaaaaa tggaggcacc 240
 tatggatata ttatggaatg gcttttctct aaaatagaaa atgaaatggc attgagtctt 300
 tcgggggtata tcggcagaga ggaaacaatc aaaggcattc tgcgaatgtt ggtatttata 360
 tttaaggagc aaagtcattt gataacattt tg 392

<210> 1721
 <211> 94
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-034-Q1-E1-A6

<400> 1721

ccacacagaa aactgaata cgatcaagaa ccaatgcatt ttaagcaacg gacattggaa 60
 tcaaattatc tccataatat ctcaataata tgat 94

<210> 1722
 <211> 437
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-034-Q1-E1-B10

<400> 1722

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 cgtaaaacag tggttccgga gcaaaatata tatcgaagta ttgcccaccg cgcaacaag 120
 agctaggcaa acaagctttt cgacgatacg aaattctttt acgagcttcc tctgtaatat 180

tactacttca gctgacaaaa ctgccatgat aaagccagaa agaccaagga agcctccaca 240
aaccatatca gttcccaaaa ggttgaaagt acaagactcc attgaaactt cgtccactta 300
cactcaatga tataaagggtg cttagacctc ctgaccaaac agcataaatc atgtgttcaa 360
agtaatcata agcccgtcga tgcaggatct ccagagcgaa cagtgaacct ttaagattcg 420
cccaaagacg aagactg 437

<210> 1723
<211> 423
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-034-Q1-E1-B11
<400> 1723

cttgtgtaga gcggcgaacg acgtcgattg tgcggtggct tgatcggttc cttccctaata 60
attcgacaac gagcatggaa gaaactgctg taaggattat cttgtgttgg atatttttag 120
cgcttacttg tatatcaaca ggggtgctagt gcagcttccg caagtgggtc gcctaagaga 180
agaacttttc gcaagttttc gtaccgcgga gtagagttgg atcaactatt ggacttgaac 240
atggaacaac taaaggagtt gttcaactgt agaatccgaa gaaagttgaa tcgcggaatg 300
ggatatcaaat acaaaacact gttgaaaaag ttgcgaaagg caaaaaaggt cggacctcca 360
tggttggtca ttgtcgggtg agactgaagt tgttttcttc tctttgtgat aggaagcccc 420
gga 423

<210> 1724
<211> 434
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-034-Q1-E1-B12
<400> 1724

cggacgcgtg ggtgggtgatg agaataattcg tcaattgttg acaaagaagt tggaaggaca 60
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attgaaaggg aaggaacgaa ccatgttggt gcaagagttg aatggacatg tgcttcaatg 180
tattcgtgat cagaacggga atcatgtgat tcaaaagtgt attgaattgg ttgaaccaga 240

gagcatttta tttatcgtcg aatccgtcaa aggacaagca gttgctttgg cagaacacgc 300
 ttatggatgt cgagtggtag aaagagtatt ggaacattgt ccaatggaac acaaggcaga 360
 aatattagct gaaataatgt ctagcgctag ggatttgatt cgtgatcaat atggcaacta 420
 tgtaattcag cata 434

<210> 1725
 <211> 291
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-034-Q1-E1-B3
 <400> 1725

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 gaaagaaaag aaatccgaac aagaagagaa aaaggtacga cagaggaccg aatcagggtta 120
 agaggtagag gagcacgacg agaagagaga atgctgggtg gagtanccaa gcggggagaag 180
 ggaagtacaa ggtacgacag aggaaagggt tacgagagaa ggaagtacaa agaacacagt 240
 gtaaggcggc gtcataatag aaatcccaaa ggagtcgaag aaacgagaga g 291

<210> 1726
 <211> 91
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-034-Q1-E1-B4
 <400> 1726

atcatctaaa cattgtgcaa aatctaattc taaataccta agaatcaaat aaaatctgac 60
 atggtgattg ctgacactgc acaacacaac t 91

<210> 1727
 <211> 424
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-034-Q1-E1-B5
 <400> 1727

cgctgccagg gatcatggat atccttttacg atttgttggt cctggctatg ttggagctcg 60
aagtgtgaaa tggctaactc gaattatctg taagatggag tctcccgatg gatattttat 120
gacgaaagat tacaaatatac tgccatctaa tatggacttc aataatgtgg attggagctc 180
tactcctcct atcatgaact tgtctgttca gtgtgcaata tgtgatccac ttccagatac 240
aaagttgtct ccaggccctt ataaaatccg aggatatgca ctaacaggaa aatgagaaca 300
tagtatgaga gtagaggat ctattaataa ctccaacgac tggcaactgg ccactttgat 360
caaaggagaa caacttgac acatagaaat tctaataagg gtcacttctg gaatgaacga 420
ttgg 424

<210> 1728
<211> 543
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-034-Q1-E1-B6
<400> 1728

ggaatcatgg gatcaccacg cgtcggtggt attccagttg gttggaagac ttgcaactat 60
gtgggttttc aaggaatacg ttgtactacg aaacgaaccc tagttgccta taaaagtccc 120
atttctcgt cagctgtctt aaaatgtgct gtagaaagtg tgcctcctc agaggcccat 180
cggaaaaaac aaaatgaagc gtggaaacac cttgatgtca ggacagaaga ggaatacaaa 240
gctgggcatg caaaggatag tatatgtggt ccagtaatgg ttcgagggca agatgggaaa 300
ctacaagaca atcctatggt cttgcaggac gtttccaagt ttttcaagaa agacgataaa 360
atagtagtgt cgtgtttgaa aggcccaaga gctatgaagg ctatagagaa actacgtgag 420
gctgggtttt ctcaacttgt gaatgtagaa cgtggctttg agaagtggca ggaaagtgca 480
cttctgtag aaacctagtt gtgtgtctcc ctacaataga gacaacatgc gattattcct 540
atg 543

<210> 1729
<211> 560
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-034-Q1-E1-B8

[illegible]

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<210>      1730
<211>      438
<212>      DNA
<213>      Cyanidium caldarium

<223>      Clone ID: LIB190-034-Q1-E1-B9

<400>      1730
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<210>	1731
<211>	242
<212>	DNA
<213>	Cyanidium caldarium

<223> Clone ID: LIB190-034-Q1-E1-C4

<400> 1731

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gctgctagtg gtttacgcaa gagtatatat ctttatctca ttgctgtttt tgcccgcacac 120
tttcgaatcc cagtgcagta tatccgaact acaggagatc ctctccctca aaacgcttac 180
catcactcgg ttgggtggaa ctatctcgga aactctggag cgatgctccg taaaaaattc 240
ca 242

<210> 1732

<211> 480

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-034-Q1-E1-C5

<400> 1732

accacgcgtc tggcttcgtc tactcacgag aggtattgca ccagttacta aaagcatttt 60
gttatccaca gtaaagtata atagtccttt gcagctgagt aaagcagaga tatggagagc 120
ttcttatcca actggaagca gacgttcctt tgcagaacaa aaggcagagc agcgggtccaa 180
agaagggtgaa gaaccaataa cgccttagcg ggggtgtgacg gagaagctgg ataaaagaga 240
cccaaactat ccttggaagg tatctactcc aaatatgttt aactgttct cattttgttg 300
cttggtactgg agaagttttc ttccagaaca tacctataaa cccaacctca atatcaatct 360
ggacaggcat catacacctt tagatttttag agatagagta gtcgggggaa tcgtcttttt 420
tttaagattt ttgcggatgc cttttttcag aaacgatacg gacactgcgc tgttggtgcta 480

<210> 1733

<211> 593

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-034-Q1-E1-C6

<400> 1733

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agaatgaaga cgacatttat tatgtcttcc ggcacgttgt gtcctacttc acgcaagcat 120

cgttgtgtac aatgttgtca gtcgagaacg tggaagatgc aacttgctcc aaagagaagt 180
 tacgacagat acattccatc acctcctggc cttcagaagc taagagatta tcaccctcga 240
 ccaaattacc caggcacctt agcgccctggc ataacaccgg atattttaac ggtggaagag 300
 ttgctcgaaa gccaacgga aaatctagcc tgtgtagagt acgacatgga cgaacgtgct 360
 cctctcgtac gggaacgtga cgactgcata ttggattggc tggcagaaga tggacgtttg 420
 attgaagatg attgggatgt ggaagacaag acttcttttg tagaaagtgt ggatacgatc 480
 ggtgatgcta ccctcgtaca tgatgaanaa gtattagcag agtatttacg tgaagcggat 540
 gcttcagaag atgaatacta tttagaagaa gtggaaacgt gatcaagttg tca 593

<210> 1734
 <211> 454
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-034-Q1-E1-C7
 <400> 1734

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 tcagtttcca gttggacgtg taagtagatc ctataagaat ggaaactagg cagaagaatt 120
 tggacctgga gcagcgggtg attaaccggc attttgggaa aattggacgg cggagttggt 180
 ggaacgggca ggcaatgcac ctcgtgatac cangaaaacc cgtagagtcc cacgtcagat 240
 tcatttggca gttcgtaccg acgaggacct taccacgtg ttgggcgggtg tgactattgc 300
 ttcaggtggc gttcttcaca acgtccatcc caatctgcta ccaaagaaga acgcaaagga 360
 agacatgcag tacattttgc cttgacctgg tgtctttgaa caccaccttc acaagaaact 420
 tgtcacttta ttggaatgta ttgaacatgt gaaa 454

<210> 1735
 <211> 575
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-034-Q1-E1-C8
 <400> 1735

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gaggatgtcg actttgtggg gaaaacccaa gtctagaaac gtacaaatag aacattgggt 120
acattctttg gaagaagttg aacaagtagc taggtcagtg gaacccaaat tggtttcaac 180
tacagccaaa tggaaaggaa ttgccagag gtgcaaagaa atagctaccg acctttgtca 240
aatattcaac aagaatgacc cccattatga ggttctattg gcattctaca caagttcgag 300
gaagtttgaa gacgaacaac atcaagtac caaggttggg attgttgtgt acaagtattt 360
gttgtaaacc atatatctct ctctctcttc catatatata tatatatata tatatatata 420
tagatcaacg agcttaggga tagaccagtc gagaggttgc gccactattt accggacatt 480
cagcaactga aagcacagtg tgtcgaagaa caaaagttgc gtgcccagact agagcactat 540
cacgccacag taaagtcgct agacaagaga cacgc 575

<210> 1736
<211> 430
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-034-Q1-E1-D11
<400> 1736

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gttctttacg acttttagat aataaattct tggaaaaagt taaatttagt ggggaagcgt 120
cgattgacag tttcttgagt aaacgggccg aactgagtta aaggaagtct ccgttacgtg 180
gcgaacaaca gaaagagtag agttcttttag tatttttagag tatttttaaaa tactaaaaaa 240
aaagtttcgc ctagaatgat aatttcgaga cgcccaggtt ggtgtcgaag aacaagtttt 300
ttagtcgcac cagtatacgt ctctgtacaat agaattgatt tgcaagactc ttttgtctct 360
ccgttccttg aactgtttct tgccaattaa agtcgctttg ttctgaaaaa aacacgaccc 420
gccgcgtggg 430

<210> 1737
<211> 386
<212> DNA
<213> Cyanidium caldarium
<223> unsure at all n locations
<223> Clone ID: LIB190-034-Q1-E1-D2

<400> 1737

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ctctgctcaa tatgaagttc anaagatcaa gcagcaacaa tgtactatga cagtctctga 120
acaatacata cagcccgata cttgctacaa gtatgtccct gaacaacagg tgggtgcctca 180
tacttggttac aagtattatt ctgtacggga gtgtgattga aaagtgctat cctcagtatg 240
caacaacgga gaaatgtgta gagtatgagt atgttccata tgccacttct acaccttatc 300
catcgggtatc tctaagttat actccttcag catatcagac aacttctgct tactaaagag 360
ccgaacactg gatagatttt tgaagt 386

<210> 1738

<211> 546

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-034-Q1-E1-D5

<400> 1738

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agtttcaggt gcttcaagat ggaaaacctc aggtgataac ttcggatcaa gtattcggag 120
gaaagaaagt agtattgttt gggttacctg gtgcctttac tccaacctgc tcgaggcagc 180
accttccagg ctttggacag aagggtgatg aggtcaaacc gaaaggagta gatacagtcg 240
cttgttttagc tgtcaatgac ccttttgtat tacatcagtg gccagagtca cagggagtgg 300
caggaaaaat tctcatgtta gcagatggtg gtgcgcaatc tgtcaagaaa cttggactgg 360
atatcgatac tggtgacttt ggtggtattc gttgtcgtcg attctcaagc ttgattgatt 420
attatgtcgt gaaaaagctt catttggaag aacgcacagg atttagtggt gcctcttccg 480
cacaaacaat attgaaagat ttgtcttgaa tacatttggt tgtcatacca cttgtgtcgt 540
tgtttg 546

<210> 1739

<211> 545

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-034-Q1-E1-D7

<400> 1739

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acgatcacag tgatcatatg agattaatgc caccattggc tgcaacttgt attatgactt 120
tgtgtgcca tcatgaaag tcccgttatc gcaaccgagc cactgagaat ttaaaggaat 180
tgcatagggg gagttcaggt ttcatatcgt tgatgacatg ggcggggaga gatacttttag 240
aagaatgtac agaagcttgt ggaggtcaag gatataaaag tgaaaataga attggcgtcg 300
tgatgagctc ttttgatgtc ttactgacct atgaaggaga taagttggtc ctgtcacgac 360
aagtcagccg aagcgtaatg aatgattttc tcaaacagat gaagagtgga aagttcgttg 420
gaccgttgtc atatgtgaag gatcaaagtg tcttaactgg atcacttcca gaagatattc 480
atagtattgc ctattctcgt ctcatctttac agcgttgca accgatactg gttgctaatt 540
tggca 545

<210> 1740

<211> 537

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-034-Q1-E1-D8

<400> 1740

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atcaatattc taaaaaacia ctatacctgt cgtacgttgt ataaacgtag ccaattggct 180
cgagggatat cgttgcgta agtccccgaaa gcagagttgg agaggagccg aagacagtcg 240
ttttgatgcc aatccttttg tcatgtaat tgctttgctt ggttggactc ttctgctag 300
cattccttcc aatattccac ttttacgtgg cactggattg actcaagcct ttttcacttc 360
cattcaatcc aacttggtc aatggcccaa aggtcctgcc ttggatgatc ctttctggct 420
ttatattatt ctatggcatg ttggactttt tatcgtagtg ttctttggta ctattggata 480
tgggattagt cagaaacgag tatagctgca agtattcata aaatgctctc gtgtggg 537

<210> 1741

<211> 307

<212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-034-Q1-E1-E10
 <400> 1741
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 gtcgtctact tattacgaaa tagataggga aattattcat cccaatatca atcccagagg 120
 acatacgata atcggtggtg atgacaggca cgttgccagg attagatccc tatggcagcc 180
 tttaacaactc atttcttaca atactatgca gaacattgta cgttttgttc ttttggtttt 240
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 tgactcg 307

<210> 1742
 <211> 439
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-034-Q1-E1-E12
 <400> 1742
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 agcggaagaa tattttattgc attcctattt agagaaggag aagcctgatg aagcggagcg 120
 tttcttaaga gactatattt taaatgatgg ttgggtgaag aatatatacg aagctccctt 180
 attgaatggc gaagtacaga atatggaaat agatgaacaa gatgcagagt ttgtggaaaa 240
 acaagaagag tttgaagccg cttataattt tcgatttgaa gaaccaatg caactgaaat 300
 agtttcgtat ggacgaggca catcatcttc ttctcgagcc aaggaaagca aaagaaagag 360
 aaagagagca cgacaagaga tgaggaagaa agataaaata gagaagagaa agagggaatg 420
 ggagcctcag aagaaggaa 439

<210> 1743
 <211> 286
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-034-Q1-E1-E2
 <400> 1743

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gtaagaggag tggtaggaag ggaataatag cacgtggaat agtatggata ataatgacaa 120
gggagttagt acagaggata acggaggaaa cgatagtaga acacatgatg gagactatac 180
gatatgaaat acgagtcgat cggatgtcga taggatttat gtggttgacg agtgtgttga 240
taagcgaacg ggtgagtcac gaggtgtgaa acagtggacg accatc 286

<210> 1744
<211> 152
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-034-Q1-E1-E3

<400> 1744

aatgaactag gcacaaggat atcgatatctg cggtagacca tatgaacgag ccagcaccga 60
ctgttttagca gaaacacagc actctgcaca aaagacaaca tctacactat acagtgtgcg 120
gcctgcccac tagtagacac gacatccatc aa 152

<210> 1745
<211> 521
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-034-Q1-E1-E6

<400> 1745

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gtagaggaaa tgagtatttt cgcaataaac agtacaagga ggcatgagag tgttatactg 120
ttgctcttag gtatgcttat aaagttaaag agtgctttat taacgaagag gactatagta 180
aagaaatgag tacagaagac cgggcagcgt gttttgcgaa tagagctgca gcaaagctaa 240
agttggagga ctatgaaggg gctttggagg attgttccga agctttgagc ttggatgaaa 300
actattggaa agcaaagtac cgacgaaagg aatgctattt gaaactgggt cgttatgagg 360
aagctttgaa agatgcaaag gcactaagag aagcacaaca gatattctcg gaagaattac 420
aacatataga acagttgaag gagcgagacg atgaaagacg taaagaagaa gctattgcca 480
agttgaacga agtcggacat agtgttcttg gctatttttg t 521

<210> 1746
 <211> 114
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-034-Q1-E1-E7

<400> 1746

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 catatgcaat gtagatattg aacattcgga ctttcatacg caactcttgt gtat 114

<210> 1747
 <211> 428
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-034-Q1-E1-E9

<400> 1747

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 taaagcagat atggttgctt ccaatgagga agacaaacca tggaataaaa ttctcaaagt 180
 caatcctaaa aagagaaaat ataaacgctg tttggtagaa gacgagaatg tggagaacga 240
 tgtggaagcc aacgttcgaa gggaacgaat tcgtgtacta agagaagctc agaaagtga 300
 agaaaagacc aactggttga attggatgga caacattgga gacaagactc ctaaagaaga 360
 agaaaagaag gaaaatttgg ctatggaagg cttgaaacat aactttgaca ttgaacaaaa 420
 ggatgacg 428

<210> 1748
 <211> 430
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-034-Q1-E1-F1

<400> 1748

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 acagaagcag atagagatgt ttctgctcta gaaaaagagt tggaaaaagg acagttatcc 120

tttgatccat cgttgcgtgt tgtggtggct ttctatatgg gtttgtatTTt tgatagtttt 180
tattcagata ctcaacgacg agataaatgg tggaaggaag cttgtgaagt aaagttggaa 240
aagaaacatt tctggcaatg ggttgcggaa gccaaactgg ctgccaatgt tgcttaaggt 300
tgaagtcgta cgtattcgTc ttgtgtggTt attcctttTc tatattaagc cacgtgggtg 360
atggatagat tagaaaagga ataaccttat caagactcga ataaataaag attggataaa 420
aagttttttt 430

<210> 1749
<211> 302
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-034-Q1-E1-F2
<400> 1749

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gttggaaaaa ggacagttat cctttgatcc atcgttgcgt gttgtggtgg ctttctatat 120
gggtttgtag tgtgatagtt tttattcaga tactcaccga cgagataggg ggtggaagga 180
agcttgtgaa ctaaagttgg aaaataaaca tttctggcac tgggttgctg caccacact 240
ggctgccact gttgcttagg gttgaactcg tacgtactcg tcctgtgtgg tcattccttt 300
tc 302

<210> 1750
<211> 492
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-034-Q1-E1-F3
<400> 1750

cgcgtcggac agtggatgtc gattacaagt tggatgatt tgggtggtgcg ttaggggtata 60
gttcggatga tatcaacaag tttctatggc ctattcgaat ttctcattcg gttgatccga 120
cagtggatga aagtgcttat cttacagccg atggtaacta tcgcgttggg gaaggagcgg 180
gtccagcgtt ggtggagtcg ttgatgtaga agctttgtta ttatagattt ggagaagtTc 240
agtttTatcg cgggcacTct gctggTtatg ataaggtTcg aggtgaagtt atagcgaata 300

agaacttcag actgcgttat ttgaggaga ctttactag tcgcaattgg ttggttcgca 360
 ttatcatgt gaaagacttg ccacatattg gataacctgt cagatcatat catccaatga 420
 gaatatatgt catccagag attccgacat gttgtggaca atatctgtat caatcgcccc 480
 accacttttt tt 492

<210> 1751
 <211> 451
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-034-Q1-E1-F4
 <400> 1751

cgtcggccccg cgcgtctgcc acgcagtcgg acgtttgaaa ggcgtccagt atgaaaggag 60
 aaacgagtgt agcactgtct agtcgtcgaa ctacgcgaaa cagcaataac tgtgaaaatg 120
 cagtaacta gcagtatgac ggaaagaccc ataattcttg actagatagg tttagggagg 180
 agagagaatc atgaagtaga ggaggtgggg taagagatga aagaccactg catgaggata 240
 aggaatctaa ctgagtaagg aaaataagct taagctaatt ccaccagtga agtaaagcct 300
 aagaaagagt aaattatgca agcaaaggca tgagagaagt ataatagcag aagcatgctt 360
 gaagaacaag aaagagattt cagaaaggga agaaaagtca gctatagaga atatgtgaag 420
 gagaactcac accgaggaga gcaccgaacg a 451

<210> 1752
 <211> 564
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-034-Q1-E1-F6
 <400> 1752

cggaatcatg gaatcaccac gcgtcgggta aacaacatca tattccatgt attgccgatg 60
 gaggtgtatc ctctataggt catattatca aaggactttg ttgtggtgct tccactgtaa 120
 tgttgggaag tatgttgga ggaacggaag aagctcctgg tgaatatttc tataaagatg 180
 gcattcgttt gaaacgatat cgtggaatgg gatcagcgga agctatgaag aaagggctctg 240
 cacttcgtta tttctcgga gatgatcggg tgaaagtagc tcaaggagtg agtggtgcag 300

taatagataa aggaagtatc aaaagatatg ttccttactt gttgagcggg gttcgtcatg 360
gctttcaaga tatgggcgta gtcagtgtag accaactgca tgactatata gaccaacgca 420
agttgcgtat gcagcttcgt acaccggcag cacaggtgga aggaaatgtg cattctttgt 480
ttacgtatga gaagtccaat gtttgattcg tctctgtgac tagtatgaat atacgcacag 540
actaaagata attctatttt tggc 564

<210> 1753
<211> 340
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-034-Q1-E1-F7
<400> 1753

gaatcatgga atcaccacgc gccgggcaag taaaagcgga gaacagagag gacgaaagcc 60
agattggaac cgagaagacg tccatacaag agaagtcagc agtggggaaa atcgggcaat 120
gtcccgggaa gtatgaccca gtaatgagga gtggactaaa cagaacagga agtacaacga 180
cggactgaac ggaacttacg gcaaaaacac gtgccaccag cagcggtaaa acgtgtgcag 240
cacgcgtaga gcagacgaac tgggtgtacc ggtcagtag tagagtaagt gtccaacgga 300
tcggacacga gagaaccagg acagggatga aatgcacaga 340

<210> 1754
<211> 453
<212> DNA
<213> Cyanidium caldarium
<223> unsure at all n locations
<223> Clone ID: LIB190-034-Q1-E1-F8
<400> 1754

tctaaagata tacgtggaca actaagcttt aactttcaga gggtcacaga aaatcctgaa 60
cattggttga tcaagtttac aagaagcttt cttcgtattc ttcgaaatta gaactttcca 120
natecttatt gctagtcata ttgtcttcaa ccatgatagc cgagtaacta agttcctgct 180
tccttcgctc ctgttcttgt ctttgtaact tttctgcctt gagctgttct ttgaaagcct 240
tttcaagcat cagatgtcgc aacaagtctt tctctagttt tacttacctg ttttctttta 300

agtatctgct ctctttcatg atcttctttt tcctgtgcca agtttgga aa cgcttccttc 360
 ttcgacttct cgagtcgggt aattatatca ttcgtcctct tttctacagt tatactctta 420
 acacgctttc tatcgtgaca cacaacttgt cct 453

<210> 1755
 <211> 430
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-034-Q1-E1-G1
 <400> 1755

cgcgtcggcc cacgcgtccg ctgaagcaca gtttggcact tggatcacta tagtaatggt 60
 actttgctat tcttttgaaa ctccaatcgg tatactctatt ggtattggta ttgcacacac 120
 ttatcaggaa aactcctcgg catctttgtt aacgagaggc attttggatg ccatctccgg 180
 tggaatttta atatacacag gattgggtgga gttgttgact tattggttta cgcgcaactc 240
 gaacttttta agacgcanag ccatatctat ttttagtatt gtgggatttg tctgggttagg 300
 agccatctgc atggcgatta tcggagcgtg ggcctaagaa taaaatttgt ttgagacgtc 360
 gtggtgcaga tgactcgcat gtttgggtact tgggtcaagt ctgacaagag aaaacatttg 420
 ttgctacttc 430

<210> 1756
 <211> 416
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-034-Q1-E1-G2
 <400> 1756

gcgtcggcct gttecgtaen acatttatca atacttatat gtttattgca tcgactgcac 60
 acaatattca actttatatt atctttttta ccttggaat gcaactagtt ctcgtcgata 120
 tgcatttctt tggagctatc agttcagttc ctggtggaat actaggaatg ctgtgttcca 180
 taagtgcctg gggtctatct gccactattg tcatcaacga cagttttgga actacgggta 240
 ttccgaatcc ggaactgaag gaccttcta ttttccgtga ttgggtaaag atgatcaaag 300

gagagaagaa gtagttgagt tgttgcttgt ctagagtttg tttgtcttgc ttagttgctg 360
 tggagtgtgt ttagtcaact gtcgatattc gacattattt cgtactttta taaata 416

<210> 1757
 <211> 390
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-034-Q1-E1-G3

<400> 1757
 ccggtacgac aacgcgtcgg cactgactctt tgtggttcgc aacgggaagt tggaagaact 60
 tcgcgctcaa gttcctatga atatacaagg taagccaaga aggccttgttt gtgcgcaaca 120
 cacagttgan actactagtg gcactattga cccggacgac ttgagacgac accaacaact 180
 cttacgaaga atgcgtttcg gaaaaagtta aaagtttatt ccagccgttc canacgatcg 240
 atcatttggt ccagcggttt caattcatgt tcaagagctt gcaagagttc gcgttgattt 300
 cgcaaatact ctttcatata ctttagggag cacttggacc catgaacgat tgaaaccaac 360
 aattcttctc tgaccgatgc caaagtacag 390

<210> 1758
 <211> 197
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-034-Q1-E1-G4

<400> 1758
 aaagaacgta tcaaggaaaa ctttgatgtc ttattcgaat tgagtccaca cgatatgaag 60
 gaattggaag ccttagataa gaacataatc ctcaatcatc aaaaggaata ttgggggtttc 120
 aatattcacg cttgagagag tctttgtcgt acaataaaca aatttcttgt tgttgctgct 180
 gctgtgaaaa aacatca 197

<210> 1759
 <211> 200
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-034-Q1-E1-G5

<400> 1759

accacgcgtc cgtccttgca attggtagaa caatagtaag agagagagaa ttggctctcg 60
ttcttgtgac atatatatat atctatatat acacatatat attaggcttt agatatttac 120
atctacagta tccaatggta tttcggaggt ttgtatacat tggaagagtc gtcgtgggtca 180
accatgccga ccacccaggc 200

<210> 1760

<211> 480

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-034-Q1-E1-G6

<400> 1760

accacgcgtc ggcccacgcg tccgggcata acattgaaat gttatggaac gtctgggtgc 60
ggcggttgcta agattaagga ggaagttaac aagtttctag ttccagtttc ttcacagttg 120
gaattggaga agaacgatat ttgggctatt cagttgggtcg tgagtacaag ttacaataat 180
gaagtatcca atcattttgt agataagcag aactgggtaa tcgataccag aaaaaagggt 240
tcttcttcgt catctactcc ttccgatgat atgaattact ccaactccga tcaagaggggt 300
ctccgtatcg gccggaactg ccaacttgta ntttgctcga tagaaaactt ggaaaagtgc 360
ttgggtaaag aaatttatga ccanatccag aaagctcgct gctcggagag ggaanacttt 420
ttgaccaatg tgactcctct atccagtctg ataggaacgt tggtcgaaca tggatgggca 480

<210> 1761

<211> 512

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-034-Q1-E1-G8

<400> 1761

ttgctgtcat ggtatccgaa gaggaagaac ttccaattat agtggaaaaa cacaatagag 60
gaaaatatgg catcgcatth gatccgcttg acgggtcatc caatatcgac tccaacgtga 120
ccatcggaag tatttttgggt atcttccgat tgccagacgg tgagagcata cagacaaccg 180

atgaagcttg cagacaaatt atgcaacctg gaagaaatat ggtggctgca gggatatgcaa 240
 tgtatggaag tgcaaccaat cttgtgttgt cattcggttaa cggcgcccat ggattcacgt 300
 tggatccttc tcttggagag tttgtgttga cacatcctaa tataaggatt ccacgcatag 360
 gtaaaatata ttctgtgaac gacggacatt gcaaaaattg ggataaacca gtggtacaat 420
 atattcagtc cttgaagtct cctcctgaag ggaaatctcc ttagtccttg agatatactg 480
 gctcgatggg tgcagacgtc catcgactt tg 512

<210> 1762
 <211> 481
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-034-Q1-E1-H1
 <400> 1762

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 ggccttgctc caatattttc ttcaaaatag agttgaacta ccagtcgaca caaagcttgg 120
 acgactccaa gatggcttgg taaccttggt ctcgacggtg gctcgccctg acagaaaaag 180
 aaaggaccag ctggctacta taagcaccaa tcgctagttg ctacattgca agtgccacaa 240
 atgtttgctc tttatcgact cacacagggc ctagtctttc tctttctgtg tcgacgagtg 300
 cgtaaactg acgtcttggg aacgcaaccc cttagtggca cacgaagttt cctgtgcagt 360
 gtcggactat gtgaaaagca cagcaaagtg ggaaagagtt tcgactcctt gntgtttctc 420
 cactagcaat attgaaccaa agtgttttcg cacattttgc actgaaacga atggctgact 480
 c 481

<210> 1763
 <211> 245
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-034-Q1-E1-H12
 <400> 1763

actcagcatg tagacaactc ctaacttctt gatgaagtgt cttaaactgc cgtagtatca 60
 taaacatcac aagcctttcc atcgcagtac attttcattg attcgcccag aagactcacc 120

ttctactcga ggatataagt ttcaagtatt actttcgcgcat attctttatg ttcgatggaa 180
 tttttgtaag caactgggag aattgagtat atttcgccag aatttgggta acgagattcc 240
 aaatt 245

<210> 1764
 <211> 345
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-034-Q1-E1-H2
 <400> 1764

tagcatacat gacattacag tgtctaattgt ttcagatgct gcctttggag aatggagagc 60
 attatcggct tcaagtagag cgaaagaact ggaacacaga agaaacgtca acaaagcgac 120
 aatagatagt ctcaagaaga ctcttaccga aaagtcaagg cttacatttt ctggacaact 180
 tgaagaagtc tatcgaagga atttaaagat attcaacgag ccgggtgaca ctggtggggc 240
 acttcacttt atgaaaaatt aatatcaaaa cagtaatagt gtgattgtgt gggagcttta 300
 ttgtccgctt gttgtctaac ccaaatagtt gttgttggtg taaaa 345

<210> 1765
 <211> 412
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-034-Q1-E1-H4
 <400> 1765

acgtacgggt gaatcaactc aagctgaaga actttcagggc aaccggaatg gtcacagga 60
 gatatagaaa acctgggtttt actcgatcag tattcttctt atgaaagtac gattgctaca 120
 gcttcgggct ataaacttaa gatgttggtg attatctttg aaatgggtgt agcttttcac 180
 tccgtaatta ttggtctgaa tcttggaata agcacaggat cgacattccg tacgttggtt 240
 gctgctctcg tatttcatca attctttgaa ggatttgctg tcggtactac tgtttctgaa 300
 gccagtttg gcacttggtat cactatagta atggtacttt gctattcttt ggaaactcca 360
 atcgggtatat ctattggtat tgggtattgca cacacttatc aagaaaactc ct 412

<210> 1766
 <211> 469
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-034-Q1-E1-H5

<400> 1766

ggaattacgg gatcaccacg cgtccgacct ggagtacatg aatcctacgt tatgtgcgag 60
 tgatgaaata agcctaataca tcattctggct ggaaccttaa ctgaaagtgc aactcgtgag 120
 gaagaagaga caatcgaacg aattgccaga tagcgtcctg ttatggacgt ggaaacgttc 180
 atagcttgct gtactgcgga tcattgctttg aatttttttt cttatacaag atacgatgct 240
 tttggtcttt tatgtcacgg acgaaatctt ggtttcgact actgcatcgt ttattctgtg 300
 tgttttgtat gtgtgtctag gtgtgttcga taaaaatcac ctatactctg gtgacaattg 360
 ccggtgtgac gataccttca gttgactaaa gtttctatgg accatcagat tcacgaggta 420
 atatgagtaa gacacgaatg aagtagggcg gactttctaa acaatgcat 469

<210> 1767
 <211> 481
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-034-Q1-E1-H6

<400> 1767

accacgcgtc cgccacgcg tccgggcttc atctggagga ggaggaggag atcgtcttca 60
 agtagttcct tcaagaatga cattgacgca aataaaaggc cgtctatcag gagcaaataa 120
 agggcatagt atgttgaaga agaagagcga tgcgttaact gttcgtttgc gttccatctt 180
 gaagcaagta ctggagagga agaatcagtc gggagattta tgcgtgagg cgcttatttc 240
 cttagcagtt gccaaagtata tagtgggaga agagttcaaa gtgcatattt tggaaaatgt 300
 agataagagt tcgttgaaag tgctgtttca ctcggagAAC attgccggtg tgacgatacc 360
 tttatttgac aaagtttcta tggaccaaga tagtaccgaa gaatatgaaa aagacacgaa 420
 tgatggaaga ggagtttcaa tcaaggcttg tccaatcatc agtttctact gtttgtgtcc 480
 t 481

<210> 1768
<211> 168
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-034-Q1-E1-H7

<400> 1768

accacgcgtc ggctcaacg tccacactag aaagaccaac gagccttgta gtatttaaaa 60
gtgaacaacg tgattccttc acagttgtct ttgcaaaact agaatcctgt gtaccgtgga 120
atattgccat attctgtttt tcttatataa acacttttat tttcttgt 168

<210> 1769
<211> 217
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-034-Q1-E1-H8

<400> 1769

ccacgcgtcc ggctaagaag gtcacattat ggaattggga gcatcgaatg gttatacaag 60
acttttttagg gcatgaaaaa ggagtaactt ccttggtatg gagcgtcatt taaattactt 120
tgtagtttat attccgagac tagtttgttt tgtattttct tcctttcggc tcctatgagt 180
gagtattacc gcatgaaacg aaaatgtttt ctttctc 217

<210> 1770
<211> 436
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-034-Q1-E1-H9

<400> 1770

gaaagaaaag tccggttaaga gagtgcgtgt gactgtatgg catggctctc gaaaggattt 60
ggcttgtctc aacacagttt gcacgcatat taaaaatatg atcacggggg taaccaaggg 120
ctatcgatac aaaatgcgct tggatatatgc acactttcct atcaacgtta ctgtgtctga 180
caatggcgat tatctggaaa ttgcgaactt tctgggtgaa aagagaactc gtcgagtata 240
tatgttatct ggagttgtgt gcagtcgctc ggaaagtgtg aaggatgaaa ttattctcat 300
aggaacgac attgagcaag tggctcagtc agctgcgaat attcatcagt cttgcctagt 360

gaaagaaaaa gatataagaa agtttctcga tggaatttat gtttctgaaa aaggccctat 420
tcctgaatat gattaa 436

<210> 1771
<211> 366
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-035-Q1-E1-A1
<400> 1771

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caagtttcag gtgcttcaag atggaaaacc tcaggtgata acttcggatc aagtattcgg 120
aggaaagaaa gtagtattgt ttgggttacc tgggtgccttt actccaacct gctctaggca 180
gcaccttcca ggctttggac agaagggtga tgaaatcaaa tcgaaaggag tagatacagt 240
cgcttggtta gctgtcaatg acccttttgt attacatcag tgggcagagt cacagggagt 300
ggcaggaaaa atttcatgt tagcagatgg tgggtgcgcaa tctgtcaaga aacttggact 360
ggatat 366

<210> 1772
<211> 341
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-035-Q1-E1-A12
<400> 1772

atcatctaatt tttttttttg gggaaagcgg tttggctcag agggctcttc ctatttaggg 60
atatatgggt gtcggtgtat acaaccataa atttcgcaa tacaatggac gaacctttct 120
ttaagttttt gtacaatggt ttccactaaa ttattggccc tgcttgaaag ttgctagggt 180
ttccagacca aaatcttcaa tttcaggttg tccccattt ttgcaaaaac tgacctcgtc 240
tgctgtgtag acacgtgttg gtgaaatatt aacatacaac cgttctgggt tctaaaggga 300
aaaacagttt tagacgatac aatatacaca gacacactca t 341

<210> 1773
<211> 313

<212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-035-Q1-E1-A3
 <400> 1773

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 ggcataaaac aacttatttg gaaaaaatca atattgtcca catgtcacaa caatgggatc 120
 cgtacgtaat gggcgttttc attcgattgt ctaccactca ctctctcttt ctccaatctg 180
 gcacttcggt tggattcaac gtgaatagcc caccttatca cagtatcaga ggaatagatg 240
 gctatcattg gtatagcctt gcagccagta cccttggtat atagtgggtca ttccatgcct 300
 tgtttacatt caa 313

<210> 1774
 <211> 424
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-035-Q1-E1-A4
 <400> 1774

ccggtcgacc acccgtcgaa gcagtgaaga aattgattgg cttcctccgt tcgtttgcaa 60
 agggtaaaac ctttttaaaa attcagttgg aacaaaataa cggaaaaaat ggaatcctaa 120
 aacatcatta aaaaaagggt aaaaaaagga aaccctttga atccttcccc ttttaataaat 180
 cactttggcc ccactgcact ggcattattc gactcgctca gcagttacct gtggttgatg 240
 tagaagcggc caatttggtta gaagaaaaac agtgtcaatc ttctgccgat tattctgttc 300
 cagttttcag aagtcgggat catgtccgag tctccctaag accgtttcaa attgtctctc 360
 ttcaatttca gcttggttga agttatcaaa atttggtgtt tcagtaaatt gtccttcatt 420
 tcgg 424

<210> 1775
 <211> 371
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-035-Q1-E1-B1
 <400> 1775

acgcgtccga tttattggct cgagcatttg aatatattgc tagtgaaact caaggagttg 60
ctacagactt ggttttaaaa gttatctcca ttcttggatc ttctgtaggc tactctggaa 120
ttgttggaag tcaagtcggt gatattcaat cagaaagaaa ggaggatata agtgtcgaag 180
atctcatttg gattcataaa cataagactg gggcattatt gaaatgttgt gtagtaactg 240
gtgccttggt gggtaggagca aataaagaag atgtttcacg tattggagaa tatgcagaaa 300
gaattggttt ggcctttcaa gtagcagacg atatcttaga cgttacttca tcgtttgaag 360
aattgggcaa g 371

<210> 1776
<211> 286
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-035-Q1-E1-B11
<400> 1776

gtccggaaaa gcgaccgctt ggtagcagtt gtacattcaa catcatcaaa tgccaaaggg 60
aggaaagaaa gattcttcaa agaaagaagc cacaagtaaa cctgcagcag cagatgctac 120
aaagacgaca gaaaagtctg gtccggaagc caagttgaag ggaactggtg caaagaaaca 180
ataaaaagtt gactatgcat gtgcagtcct gttatgtttt gtgagttctg tttgatagtt 240
tccagctatt cttttggtag tgaataaaga gaaaattttt tatatt 286

<210> 1777
<211> 225
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-035-Q1-E1-B2
<400> 1777

ccatttgtca agagccactc ggagccttgc ggaggacggt ggttttagcag ttagcaccac 60
tcttgggtat tctgtacgct actctggaat tggtgcaggt catgtcgatg atattcagtc 120
agcaatgttg ggtgatttca atgtctgcga ctgcatttgg tttgatttgt ataagactgg 180
ggcattattg aaatgttgtg tcttatctga tgccgtgttc ggtgg 225

<210> 1778
 <211> 375
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-035-Q1-E1-B3

 <400> 1778

 acgcgtccac ccaagcgtcc gagcgacacg aaatattttc tagtcatgca aatatttgtg 60
 aaaacgttga caggaaagac cataacctta gaggtcgaac cttcggatac tatacaaaat 120
 gtgaaatcaa acattcaaga taaagaaggt ataccccctg atcaacaaag gcttatattt 180
 gctgggaaac aactcgaaga cggaagaact ctgtcggact ataattattca aaaggaatcc 240
 acgttgact tggattgag gttaagggga ggtattatag aaccaacttt ggcagcattg 300
 gcgagaaagt acaactgtga cagaatgata tgtcgcaagt gttatgccat attgccagca 360
 agagctcaca actgt 375

<210> 1779
 <211> 399
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-035-Q1-E1-B5

 <400> 1779

 gacccacgca tccacggacg cgtgggcgga cgcgtgggtg ttgcgtcatg caagcacgac 60
 atggctctgc accggtagat gtcggagttg agtgggtgag agcatgagga gcttggagtt 120
 gttatacttt gttgatcttt acagtaagaa gtggaatatg aactagtcta gacctggaac 180
 cctatcagtc tgggtctact attaacattc tacacgcgac agtcaccgtt ggtgtgtttc 240
 actggataaa acggagtcct tttcctacca actgggtaga agactactac gtcgataagt 300
 aaacgtggtg ggagcaaadc cataggaaga ggcacaagac tccgaataga aagttcttca 360
 ccgctgtagt ggtcgactg tacttaactg ccgttcaat 399

<210> 1780
 <211> 386
 <212> DNA
 <213> Cyanidium caldarium

 <223> unsure at all n locations

<223> Clone ID: LIB190-035-Q1-E1-B8

<400> 1780

accacgcgt ccgccacgc gtccgccac gcgtccgcc acgcgtccgg tgcaaatcc 60
gattctgcag cttttgaaa aggatgaact cgctcaactt tgtctogtct tcttttctta 120
actgtcatag tatccagata aagacttcac gtagacaagt attgaggcca tacagacatg 180
ttgtgagtag ctccaagtct ctgaaacttt cgtgccaaat agaggataaa gacacgtgga 240
gtcgtcgcaa gtttcttctc acttcacttg gatttgtgtc ttctgcgctg ttcctttatt 300
ctcaagattc ttgggttcc agagactatg cagggtgttg ttatttgggc ggnggtgata 360
aggttgacat aaacaacgct aatata 386

<210> 1781

<211> 414

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-035-Q1-E1-B9

<400> 1781

gtccggtcaa gtgatgctgg aggaggaaag gtgaggcggg aggttggtta gagattactc 60
attgtgcttg gectgaagga ggatgagcac tatctcggtt tctctcaaga aaccggata 120
tgattccttt ctagggtttg ttcccataca aggtattggt ttgtcaccaa ggaaactatt 180
caatacgtgt tgtgctcgac cgangagagc ttggacctct ccaaccacca taaagtgtat 240
ccaagacaac ctccatgagt gggttcgttg taaagtattt cgttgtggag aaaaacatat 300
atttctaggc cctaacaaca gcttaactgg ttccaatgca ctgcctatcg aaatagaaag 360
ccaactggat gccgacttgt tgcgttctgc actcggattc tatcgcaagc aaag 414

<210> 1782

<211> 390

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-035-Q1-E1-C1

<400> 1782

cacgcgtccg accaagcgtc cgccacgcg tccgccacg cgccggagg agagaatcgt 60

catgcttcgg atctcaacga ggatacttgt cactacagaa cggatagtag agtaccgaa 120
aatgtcatag ttcgaaaaga tacaaacgtg tcttttttgg atttgtgtct ttttgccttt 180
gatcttttga ttagtcgtct tagacacttt tcggagcctt ctgtgccagc ttccatacca 240
gacacggatg actatgcact ttttgtgacg tggaataaga aaggtagaga aggtgagcgt 300
gcacagttgc gaggttgtat aggaacgctt tcacctttga accttcgaaa agggatacat 360
acttatactc tagcaagtgc tttcagagat 390

<210> 1783
<211> 397
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-035-Q1-E1-C2
<400> 1783

cacgcgtcca gcgaaacaag agaaggggaag taaaaggtaa gaaagaggaa aggtttacga 60
gagaaggaag tagaaagaag agagtgtgaag gcggcgctcat aatagaaatc cgaaaggagt 120
agaagaaaag agagagaaga aagaaaagaa gagaaaagcc gtactgaaga ccgacacagg 180
tactcgagga gaaaggagac ccaaattaag gtgagagaat ggacgataag gaactaggca 240
aaaggatatg gtatctgcgg tagaacatat gaaagaagca gcaccgactg tttagcaaaa 300
acacagcact ctgcagaaaa gagaaaatgt aaagtataga gtgtgcggcc tgccaaatag 360
tagagaagaa atcgatgaaa gtgaaagcga gtaaaag 397

<210> 1784
<211> 384
<212> DNA
<213> Cyanidium caldarium
<223> unsure at all n locations
<223> Clone ID: LIB190-035-Q1-E1-C3
<400> 1784

cggtcgacca gcgtcgatgt aggtggtgga aggcgtaact ttgtgggttt ccnacaagat 60
gtcttttaaaa ttcgtgaatc aaaggctttc aacccccgta tggacaacct gtggatttac 120
ccaccggaat aatgtatacc ttgaaccaa tgctgtaaat tgtcaatttt gctttttctg 180

ttgtagtcat tgcaatgttc tcccaattta ccttttatca ataccgtgac ttttaattgtg 240
 ctttcaatgg gcattgggat tacgccacgc ataccaaatt gtctgggcct gtgggttatt 300
 gccgttactt cattgctttg gggagcattt ccatcgtagt tttagctatt gttgccgtag 360
 ctacttttgg aacgctgtat ttg 384

<210> 1785
 <211> 395
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-035-Q1-E1-C7
 <400> 1785

gacccacgca tccacccacg cgtccgcca cgcgtctgcg gacgcgtggg tgggtgggta 60
 ggaggaggct tggatcatata tgtgataatg attatggttt tatgtagtga taccaggatt 120
 atggaacgat tctatgataa gatgagtgag tgtagttagt agagtttcag atcatgtatt 180
 tagaggaaat tgataaagat gtgtaatatg tgaatgggtg tttgggttaac attcaaattgt 240
 agtattcatt aggtcttatt ggaaagtatt tgtaagtga aggacagatg cgtcatctag 300
 gattgaatat ttacacataa tttgagtgtt tagatttaaa taaggaaaag atatagatct 360
 gaattgaaat gtgatttgat aagatatata ttttg 395

<210> 1786
 <211> 218
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-035-Q1-E1-C9
 <400> 1786

tccgctacta tcaacgtgtt tttctgggct tgggtggttg ttggtgctat cgttgctact 60
 gcggcaagac cttctacggg aatgctgaac ttgcacaaca acaggacgga agtacacgca 120
 gtggaggcct tgctttgggc caacatgtgc ttgtactcct tcaatatcat cttggccttt 180
 ttgatatacc ggggttggtta aagcgggtctc tggccccc 218

<210> 1787
 <211> 395
 <212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-035-Q1-E1-D1

<400> 1787

accacacatc cgattacgcc tgctcttgc agaaactact cttcatcgac taagaaagtc 60
aaacccgctc caggaacgta tgcaagtcac acacgaagct atcattgtcc tatgctgagt 120
ttttgcacat tccaggtaag catctcgctg atacacatca catgtgggtc aacatgtcat 180
aaagaagttc aaagatgcgt acactgtggg ccaccaggaa tactttctaga gtttcaccca 240
tagcgtatctt agtaaagtat acagtaaagg aagaggtaga agaagcaaag ggggactcag 300
agcgagaatg tgattaatct agtgggaaat cgaccaggaa ccaacataag gtatcagagt 360
aagtatcgaa ggaaaaagag aatgagaaa gggta 395

<210> 1788

<211> 397

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-035-Q1-E1-D10

<400> 1788

gtcatgtcgt cttcaaata gtccatcgag acgttattgc caaagacgtt tcctaaagaa 60
atccctactt cgtaatggcc cgtggaagca cttttgggca atccagtact cgcgctcgac 120
gtgtatctat atcttgccgt actccacttg aactttaatg cttcaagcgt ttcgttgatc 180
atcggtaacta cagtcggctt ggtgcttcta gttacgtcgt atcataaaac tgcatatgcc 240
aagtggctta agtcgatcg cacaacagag caaccaacca agagctcttt caagggtaat 300
ttgtcggcat accgaagtgg agttgagagt cacctatggc tcctggaaag atctcgggtca 360
gttacagtgt aatgataaac aacgcaatat ttcaagc 397

<210> 1789

<211> 312

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-035-Q1-E1-D12

<400> 1789

gaagagacga gtcacgga acttgtggag tttgttgctc gtgcaagttc agaatccgac 60
aagttgttgg tgaacgatag cgatcgagta tttcagtatt tgtattcgac gttgttcggg 120
acggagacca aagacgatcc tacaagccga cgagtggata ttatcgtcga caatgcaggt 180
ttggaactgt tttgtgatat gtgtttggcg cattatctca tcgcctctgg gatagcggac 240
caagtagttt tccatttgaa agcatatccg gtgtttgttt ccgatgccat ggaaaaagat 300
ttgtggtata tg 312

<210> 1790
<211> 400
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-035-Q1-E1-D3

<400> 1790

aaaaaagagg aagagaagaa agagaaggag gaacaaaaga agtctttcga acagttgtgc 60
actgttatta aggaaattct tggagacaaa gtggagaagg tggtagtttc cgaaagactt 120
gcggaatctc catgtatcct tggtactggg gagtttggtt ggtcggccaa catggaacgt 180
atcatgaagg cacaagcttt gcgtgattcg tccttggcaa tgtacatgtc atcgagaaag 240
ataatggaaa ttaatcccaa caatgccatc atgcaagaat tgcgtcgccg tgtggaagca 300
gacaagtcag acaagaccgt gaaagacttg gtcaatttat tatttgacac tgcattgttg 360
acttccggat tctctcttga cgatccaacg tttttgcctc 400

<210> 1791
<211> 387
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-035-Q1-E1-D4

<400> 1791

cgcgccaat aaaggaggaa gagaagaaag agaacgagga acaaaagaag tctttcgaac 60
agttgtgcac tgttattaag gaaattcttg gagacacagt ggctaattgtg gtagtttccg 120
aaagacttgc ggaatctcca tgtatccttg ttactgggtga gtttggttgg tcggccaaca 180
tggaacgtat catgaatgca caagctttgc gtgattcgtc cttggcaatg tacatgtcat 240

ccagaaagat aatggagatt aatcccaaca atgccatcat gcaagaattg cctcgccgtg 300
 tggaagcaga cttgttttat tagaccgtga aagacctggt caatttacta cttgacactg 360
 cattgtttac ttccggattc actcttg 387

<210> 1792
 <211> 426
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-035-Q1-E1-D5
 <400> 1792

acccacgcgt ccgcccacgc gtcgggttgg taagcgtgca catgttcgcg taaagttgag 60
 tgaaagtcgg tatagattcg aggacctcaa ggggagacta tagtgcaaca gaagaacata 120
 gataagcagt catttagctt cacaacacca cagcacgttc ttgctggaga ttcgagtttg 180
 gcttccaacg atattcactg gcctcctgca agttatcact tttgtttcga agctagtcct 240
 cttcgtcctc ctcaaggttc acctgtacca agaagaaagg taatactgaa tgtacaaact 300
 gattttgtgg cgtcggatta tacggatatt gcaaaagtgc aacacttgaa tagtttgga 360
 gctgccttgc gtcggatgga agaacaattt ggtcagatag ttgtaaaact ggaaaatgtt 420
 aaaaac 426

<210> 1793
 <211> 265
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-035-Q1-E1-D6
 <400> 1793

gacccacgca tccagttcta cagttgatac ctgtactagt aggaagtgcc gtttgagctc 60
 aacttgttct gagtgcggtt caagttgata acgttgagaa cactcgagca tctgaaagtc 120
 tcgcgataag ccaataagtt tctcacgcaa ctttctaaaa ctgtgtcatg atctgattga 180
 ataaccgaag aaggcttcta agtatcatca ctgcactcta gcgggaaccc acggatgact 240
 caaggcagga ccacttcgac cttca 265

<210> 1794

<211> 390
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-035-Q1-E1-E1
 <400> 1794
 atggcgattg ggaacgagaa aggcgtcgac gacgaaagaa gatcgctgta ggaacaacga 60
 cataaaatgt ctgttttatt acaaagttcg gatttccaac acattcttcg tattctgaat 120
 accaacattg atggcaagag gaaagttatg tatgcgtaa cgcataaa ggggtgtgggt 180
 agacgtttct ccaatttagt cttaaaaaag gcggaggttg acctgagtaa gcgtgctgga 240
 gatttgacgt cygaagagat tgaccgcata gtcaccatca tgcagaaccc ccgacagttt 300
 aaaataccag attggttcct caacagacaa aaggatgtga gagacggaaa atactcgcag 360
 cttattgcga acaatctcga ttttaaactg 390

<210> 1795
 <211> 346
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-035-Q1-E1-E10
 <400> 1795
 gtccgcccgc gacggaagaa ctagaccgtt atatgctgga gacagagaaa aaatggagcg 60
 tgaagagaag caaatggaag tgcacgtgtt gcaagttcaa ctcacaaaga gactgtcaga 120
 gaaactgctt ctagtctgtt cgagcttccg aaagaggaag aaatcaacga tgaggagcga 180
 gaattgcgag agttggaaca aagtatggct gtatagtttt ggaaagcagt gttagccact 240
 taagagcctg aattttaaaa tatattacat atatatccac agtaaaagtt gcgtgtggta 300
 ataaattgtc tgtagtcttt cgtcaaaaaa aagagacaaa aacaag 346

<210> 1796
 <211> 410
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-035-Q1-E1-E12
 <400> 1796

gtccgcccac gcaaccgccc acggtccgg taagatcggt ttatgggtggc tgaggacttg 60
accttttcagt tctttgcatt tttttcttgg actcagagaa cactttttcaa acacacctgt 120
aaatgttcac aacataaatt cactgagtc ccatgcagag tatcgtcagc gaaattacct 180
gcgatacggg cttttcctgt tgttaccatg ggattgaacg actcgtagag agaacgacta 240
agtatatctg atcttaccgt agaagaagtc gctgaagact acggcctacc tttggaatac 300
gtcatcgatg tacttatcag taatgggtgtg gaagaacctg tataccctaa cgacgttctg 360
tcaagccgag taaaggacag tagaaaggcg gaagtcttag aaaccctttc 410

<210> 1797
<211> 413
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-035-Q1-E1-E2
<400> 1797

ccggctcgacc acggtccgc gcagggtggaa ggatgcttga gcggcagaag aatgggtgtgt 60
ttgcatcctt gtaacaacac tacttgtcac ttgggtcaaa atatgtttcc ggaaaccacc 120
cagacaatg tttctagtta tcccgaata ttagtagacg tagagaagag caaagtgtgt 180
gcgcaagtgg tgtgtccaaa accccacaga gtttccaacg cgttgagtgc gttggaactt 240
caaaatttta agcttgaga gccttgttt cagacagcag aggcagaaaa ctacaacaga 300
gactcgacta ggccttttag ctgtccctgg tccaacacgg aggagcctgt agcaatagta 360
ggggccttgg acgtggaaag tcatcgagac ataactctc cagaaaggac aga 413

<210> 1798
<211> 359
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-035-Q1-E1-E3
<400> 1798

attagtcgtg atttcgtcta tggcgtttac gagtttctt ccttgccacg cgctttccaa 60
tacttgcatg aaattctcca actgttctcg tagaaaaag actctagggt gggttgaacc 120
ttttctgtgg agatggaaca aacaacttgt cataaataag cagagaagag ctttggggtc 180

gaacaacgtg agcattctat ttagtcttgc ggtgttgga gatagtcctg ggtcgtcttc 240
 tgtttctacc agcaacgact ttcataacgg caaagaaaac aaactgagtc tagaacagct 300
 tcaactgaat aaggaatatg aagctgtagt aacaaaagta acagaatatg gcgcctttg 359

<210> 1799
 <211> 407
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-035-Q1-E1-E4
 <400> 1799

acgcgtccaa gtagtcgtga tttcgtctat ggcgtttacg agtttctttc cttgccacgc 60
 gctttccaat acttgtagta aattctccaa ctgttctcgt agaaaaaaga ctctaggttg 120
 ggttgaacct tttctgtgga gatggaacaa acaacttgct ataaataagc agagaagagc 180
 tttggggctc aacaacgtga gcattctatt tagtcttgcg gtgttggaag atagtcctgg 240
 gtcgtcttct gtttctacca gcaacgactt tcataacggc aaagaaaaca aactgagtct 300
 agaacagctt caactgaata aggaatatga agctgtagta acaaaagtaa cagaatatgg 360
 cgccctttgta gacatagggt cagtaaagta acgcttaatg catgttt 407

<210> 1800
 <211> 391
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-035-Q1-E1-E5
 <400> 1800

gacccacgcg atccacggac gcgtgggaga tggcgacta tcaacattac cgagctagta 60
 cagcgggtat agctttggga gaagcacttt ctgaactcaa ggaacagaac ctctttacgg 120
 aagcggaaga agatgtgatt tggaggaagt ttgaccgtgc catgacagaa gcccttgct 180
 ccaacgttgt ggatacacac cttacgttga aagggagtct tcatacactag cgactctgtg 240
 ataacgtgtg gcaattcttc gtgaaagacg cacaagtgc atttgacaaa aggtcggact 300
 ttacgccgcg tggttatctg aaagtagttg cttgtgatta tgtaaagcct gtcaacccta 360
 agtccagtca ggtttgaagc ctaatcgttg g 391

<210> 1801
 <211> 337
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-035-Q1-E1-E6

<400> 1801

aaccatgctc tccatttaga gatcatcacc cagtatgtgc ggggatgaca atttcatttg 60
 gagtggttgcg acgttatggc tatttatgta acgagacgtg atgagaaaac tgagtgtctga 120
 tgtagtatct cgacaaaccc ttacaattgc cagcgcgttc agtgccttcg aacttcacaa 180
 tttgaagctt ggagagccgt gttttcatac atcagacgca gaaaactaca atagagactc 240
 gactaggcct tttagctgtc cctgggtccaa cacggaggag cctgtaacaa tagtacgggc 300
 cttggacgtg gaaagtcac cagacataac tctcca 337

<210> 1802
 <211> 377
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-035-Q1-E1-E7

<400> 1802

acggacgcgt gggaaaagag agagaagaaa gaaaagaaga gaaaagccgt actgaagacc 60
 gacacaggta ctcgaggaga aaggagaccc aaattaaggt gagagaatgg acgataagga 120
 actaggcaaa aggatattgt atctgcggtga gaacatatga aagaagcagc accgactggt 180
 tagcaaaaac acagcactct gcagaaaaga gaaaatgtaa agtatagagt gtgcggcctg 240
 ccaaatagta gagaagaaat cgatgaaagt gaaagcgagt aaaagatgag gtatagagaa 300
 tggcggtcct aacagtaagg atccaaaggt agcgaagtaa atagacgttt gaaaggcgtc 360
 cagtatgaaa ggagaaa 377

<210> 1803
 <211> 332
 <212> DNA
 <213> Cyanidium caldarium

<223> unsure at all n locations
 <223> Clone ID: LIB190-035-Q1-E1-E9

<400> 1803

cccgtccgcc caccggtccg gaagaactag accgttatat gctggagaca gaagaaaaaa 60
tggagcgtga agagaaagca natggaagtg cactgtttgc aagttcaact caciaagaga 120
ctgtcagaga aactgcttct agtcgtgtcg agcttccgaa agaggaagaa atcaacgatg 180
aggagcgaga attgcgagag ttggaacaaa gtatggctgt atagttttgg aaagcagtgt 240
tagccactta agagcctgaa ttttaaaata tattacatat atatccacag taaaagttgc 300
gtgtggtaat aaattgtctg tagtctttcg tc 332

<210> 1804

<211> 390

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-035-Q1-E1-F1

<400> 1804

atgtgggttg tggagtaagt gcgcttggca gcaaactaaa agatggcaag aagaatcatc 60
ggagcttata tgtctgacgc tactgtagcg tctctattta gcgtgaaaat gttgttctac 120
cttacaatac ttgcgttctc tatcactatt gtgggtctta tgggtaagag ttccgacggt 180
atttgggttc acagtgttcc agcgaaagac gaatattgtg catacaagtc ttcccttcaa 240
gtaaaccacc acggcatagc ttccctattgc aagtatatca tggctgtagc agctattggt 300
ttggttatca gcttcttcga gttttggtat gcattcctcg gaattttctt caagtggcaa 360
caaaagttgt ggtatattga atctgctatc 390

<210> 1805

<211> 334

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-035-Q1-E1-F10

<400> 1805

gagatgcacg gctgggtggct atggagtttg ttgttggctt gtttgtgttt gttccacta 60
tccaactccg ttcaacaaga tgaagcgttt gttcctattg gtcctcttcg tgaaaaggat 120
gagcacgcaa cacagccttc acaacctgtt gtaaagccac acggtagtaa ccactggaag 180

ccgctccagt gtactcccaa caaggaaaaa gcagaggcat tgatacaaaa ggcacaaaat 240
 agtttgagtg cgcttttctc aaaccggttg ttcaagcata tagacgtcga aagttgtcaa 300
 gagtttagag tggtcgaaat aaagcttgac gaaa 334

<210> 1806
 <211> 474
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-035-Q1-E1-F11
 <400> 1806

ggtcggagtt caggggtggcc cacgcgtccg cccacgcgtc cgggaaaagg tggtaaagg 60
 cttggaaaac gaggagccaa acgtcatcgt aaagtacttc gagataatat tcaagggtatt 120
 acgaaacctg ctattcgacg tttggcaaga cgtgggtggtg taaagcgat atctggcctt 180
 atctatgagg agacaaggaa cgtgttgaga gtgtttctgg aaagtgttat tcgtgacgca 240
 gtaacttaca cggagcacgc tcgtagaaag actgtcactg caatggacgt ggtttatgct 300
 ttgaaacgcc agggtcgtac gttgtacggt tttgggtggtt aagaggcaaa caaagacatg 360
 gtgtttttca acaccaccag ttgtgaaaga aacttgggtt tcagtctcag tagacccttc 420
 cttgtttatg anattacagc tttgcaaata taaanactt tcattttacg ttgt 474

<210> 1807
 <211> 321
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-035-Q1-E1-F12
 <400> 1807

tccgcccacg caaccgcca cgcgtccgcc cacgcgtcgg ccaacgcgtt ccaaaaaagg 60
 aaagctttaa agcatgaaaa aaaagaaatc caaaaaaaaa aagaaaaagg taaaaaaaaag 120
 gaccgaatca gggtaaaagg tagaggagca agaagagaag aaagaatgct ggggtggagta 180
 ccgaaacaag agaacggaag ttaaactgaa gaaagaagaa acgtttacga gagaacgaag 240
 tagaaagaag agagtgtgaa gccgcgtcat aatagaaatc cgaaaagagt agaagaaaag 300

agagagaaga aagaacagaa g

321

<210> 1808
<211> 387
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-035-Q1-E1-F2

<400> 1808

aggacgcgtg ggttttgcaa gtttgcactt tgaaagacgc gcttggacta ttgtatcggt 60
gattctgttt ttgtttcggt atccatttat gacatgtcaa gttatttttg ccattcattg 120
ggaagcttac aagttgtgga aaagaaaatt tcctttttat ccacatccga ataatagcca 180
aaacatgtgg tctcgaacta tcgattatgt gagttcttgg ttgcgtaac aagtcgtcaa 240
gtaaacatgg caactcttct tttatcatct tcttggccat gtccaggtct cctcagaacg 300
atgtgataat ctgccaacgt tcgagtcgca aaacctgctt cacaataaca aaaataataa 360
agccatttgc gaataaatat ccagtcg 387

<210> 1809
<211> 279
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-035-Q1-E1-F3

<400> 1809

ggtcgaccac gcgtccagaa attgttggtg aaatatgaca ggaagaggaa aaggtggtaa 60
aggtcttggga aaaggaggag ccaaacgtca tcgtaaagta cttcgagata atattcacgg 120
tattacgaaa cctgctattc gacgtttggc aagacctggg ggtgtacacc gtatatctgg 180
ccttatctct gaggagacac ggaacctgtc tagagtgttt ctggaaaatg ttactcgtga 240
cgcagtatcc ttcccggagc acgctcgtg aaagaccgt 279

<210> 1810
<211> 305
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-035-Q1-E1-F4

<400> 1810

accacgcgt ccgaaaagaa aaagaaatga gtggagtagt acaaggagcg aagatgatgg 60
gagcaggaat ggcaacgata ggttttagcag gagtaggagc aggagtggga atagtatttg 120
gaagtttggt gaatgcatat gcaaggaacc cagtattgaa gcagcagtta tttggataca 180
cgatattagg gtttgcgtta acagaggcag tatgactgtt tgcactgatg atgagttttt 240
tgatactgtt ttcatagtat aggagataca cgacgtagac gagaaatatc tcagagagtg 300
ctggg 305

<210> 1811

<211> 409

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-035-Q1-E1-F5

<400> 1811

agttggttgg gtcgttggtg ggacagtcac gtagtagaaa tggctttaga caatgtcaaa 60
aatgagcaga tggaaagaat ccgcaagaca attatttcaa gggtagcaga cgcttctacc 120
gtgggtgaaa ttggagcagg ctgaggtctc aatttctctg actacccttc ttatgtgaag 180
gatttgacag ttattacttt acaagaagaa ctgagcaaaa gagctcgaca aaaggcacia 240
cagagaggtc tgaatgtgca tcatattcag ggagatggcc gactacttcc ttgaaagat 300
aactcggttg atgtggtcgt agcaaccctt ctattgtgca cagtaagcga tgtcgcgggg 360
tttcttcaag aagtttctcg tgtgttgaaa caagacggca agtttttcc 409

<210> 1812

<211> 375

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-035-Q1-E1-F6

<400> 1812

gccgaccac gcatccacc acgcgtccgc ccacgcgtcc ggtcggttctt tggtagggac 60
ttgtgcgtac ggtgtgtgtg tgtgtgtgtg tgtgtgtaac aactatcagc accacaaaaa 120
gatggttcgt atgagtgtat tagccgatgc tttgaaatcc atcgccaatg cagaaagaag 180

aggaaagcgt caagttctca tccgcccag ctccaaagtc atcatacgtt tcttgaggt 240
tatgcaaaaa cacgatatata ttggagagtt tgaatatgtg gacgatcatc gctcgggcaa 300
actcgtcgtt cacttgatag gcagattgaa caagtgcggt gtgatatac cacgatatga 360
catgaaagtg cacga 375

<210> 1813
<211> 395
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-035-Q1-E1-F7

<400> 1813

aggacgatat atgtagaatt ttccaacaag caataactca aaaacaacat cagctcgata 60
cctctcgtgc ggacttgta aagaggaaac aacatatcca acaaatgcaa gagcaaaaag 120
aacaggagat caatacacag cgtgcaaaaa ctcttgaaac gttacaaagg cagcgagatt 180
cactcgaaaa caatttgaaa ctgttgaga ccgaagtga cagcatgcaa tccgaactga 240
gtaatatcac agcgtcttta aacgaagcac cacaaaatga cgatgacttt gaatacctta 300
ccaattttcg aaatagcctt gtggaacagg tcgatgcgaa acaacgagag ttgcaagaat 360
ggaaagaaca aagcaggctt cgtcagatgc aactc 395

<210> 1814
<211> 435
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-035-Q1-E1-G10

<400> 1814

gtccgccaac gcgaccgcc acgcgtccgg caggacaaac ggacaaggac caccacgttg 60
gcaacgttgt ttcaccaaac aacgtcgcag aaataagaga agaatttctt cgtaaagcaa 120
agagagttca tccagacgga caaagacata atgaacgtgc caatgaggag tttgtcatt 180
tgaaagagga gtatgaacgt ctctggagg caacccaaag caaccacaca acgagtagaa 240
acatacttgt ggaacacatt cccttgaaa agtggaagag aacaacgaca ttgcaagata 300
tggaacaata caactacgcg gagaatcatc attgccaaca agtatacgtt gagacctact 360

gtcgtatgtgg tggactagtc actatagaag cagatgatga cgaggatatt aggagactat 420
tgaataataa tgaga 435

<210> 1815
<211> 448
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-035-Q1-E1-G11

<400> 1815

gtcgcccgac gcgtccgcac attggaaaag atagacttgt ctcaaggcag ctttaaagta 60
ctccaagact gtgacaaaga tttagaatgt gatcataata ccaagtttca gttggnactt 120
attcagtatg gtctcttttc acctgggttt tggacgagag aaaatgttct gctcttctat 180
ttggagctcg tgtcagggtgt attcataagg gacactctct accttttcta caacaaaggt 240
gaagaacatt tgtttgcgag tttaatgctg ttgttgaga cacaagtctc actgtatgca 300
gacataaaaa caaactggga gaaacgacac tttatcggtg gcctcatcgt caggctcttg 360
tgtgaggaat atcaacgaca gtattcagag ctatgttcac cgaatgaaag cacgaaagat 420
atgctactag taaacagatt gtttcaaa 448

<210> 1816
<211> 383
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-035-Q1-E1-G12

<400> 1816

agatagactt gtctcaaggc agctttaaag tactccaaga ctgtgacaag gatttagaat 60
gtgatcataa taccaagttt cagttgggac ttaatcagta tggctctctt tcacctggtt 120
tttgacgag agaaaatgtt ctgcgcttct aattggagct cgtgtcaggt gtattcataa 180
aggacactct ctaccttttc tacaacaaag gtgaagaaca ttgtttgcg agtttaatgc 240
tgttgttgga gacacaagtc tcaactgtat gacacataat aacaaactgg gagaaacgag 300
actttatcgt tgggctcatc gtcaggctctt tgtgtgagga atatcaacga cagtagtcag 360
agctatgttc accgaggtga aag 383

<210> 1817
 <211> 382
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-035-Q1-E1-G2

<400> 1817

agcgaaatga gcgattgtca gatgcattgc ctaacgttta ctggttgctt ttccaactca 60
 tacttgtcaa agagcttttg cacaagatgt gaaaaaata acaggtacaa aagaaatddd 120
 aaagtcggaa agcaattatc ttgtcggata aaggcttccc ttggagaaga gtttgataaa 180
 gttgctctcc ctacccatt tggaatagta tttcgtgact tgaaccagtt acctgaaaat 240
 atactggata tagcaagtgc cgctgataaa agtgagacca gacgagactt ttttacagaa 300
 gagaagtttg aggagttgac tggcataatt cgtacaaaag gcggtggcac agttgttggt 360
 cctaactgtc ccaacacacc gt 382

<210> 1818
 <211> 356
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-035-Q1-E1-G3

<400> 1818

aggaaatttg tagtgaaacc gatcattggc tccgaatgga atccgatgcg gttcaatcgc 60
 agttgttata ttttgacgtt cctttgactt tttctgctgc ctgttttctg ttgtgttttc 120
 tgttttgtgc atttacagga atgaatacgg gaattcctat ttatcattca tcgcatgcga 180
 tcgactattg gttgggaatg atacttatag ttgtggtata tcttagcagt tatgcgtgga 240
 taatgacatg aaagcttggt cgaagtggc cgaaactatc tcctggacaa gttccctttg 300
 atcttgccaa acgtgcttcg catcatatc caacacagga tagtgacaat agtggt 356

<210> 1819
 <211> 414
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-035-Q1-E1-G4

<400> 1819

cccacgcgtc cgcaagcacc aaagaaaccg cacgtttgct gattggacgt tgctttcttt 60
gtaggaaatt tgcgatgtcc gacgatcaga cgacaagact cggctctttg tggttgtctc 120
gacaactatg tatctctcta tggatgttgt ggtgtggaat gaggtactcg tataggttgg 180
aacgtttggt catccattga ctagtgaata atactcgatt ccgtatatatt tatctcttta 240
ttttctactt gtacataaaa ctagttatat gtctggtagc tataaaagcc ctttgccatc 300
tcaacattta tataaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg gggggccccc caaa 414

<210> 1820

<211> 414

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-035-Q1-E1-G5

<400> 1820

gttgaagaaa aaagagttgt ctgaggacca aacagagtga caagaagaga tggcaaggag 60
aatattgggt gcttatatgg gagatgccac agtggcaact ctgttcagta tcaaaatggt 120
gttctatctt actatcatgg gtttctccat aactatcttg gctctcatgg gaaagaactc 180
ggatgggtatt tggatacata gtgtgccacc tgcagaacaa tattgtgcat acaagtcttc 240
attggaggtg aaccaccatg gaattgcttc ctattgcaag tatatcgttg ccgtagctgc 300
tattgggttg gttatctcgt ttttccagtt ttgctacggt ctggtgggta tctttttcaa 360
gtggcaacaa aagttgtggt atattgaaga tgccttcaat ccaattttcc gggc 414

<210> 1821

<211> 425

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-035-Q1-E1-G9

<400> 1821

cgtcgggat tttaggaatg aatgaatggt tccatcgctg ccgtcggtgt tttgtttcc 60
agaccgactt ggaaacgaca tcgatcatat atagtgtggt acaatggggc ttcaatgata 120

ggtctgacgc tacaaagtga aagtctgctt gtgtttcccc tgggcgaccg gaaatgaacc 180
 caaattacaa ggtagtata ttgaaagaat ggccgtcagt actttacctg tgatgagaac 240
 atttttgcct gctttcacag tttatatgac tgtcagagtg atttgtttta tttgcgtctg 300
 agaatatatt ttactattgg aaaacaactt tttccctagt acatatctca attgtgtttt 360
 tgtaggggtt gctattcagg acttgtaaatt tctttacttc ggtcaccagc tatctattta 420
 acaag 425

<210> 1822
 <211> 313
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-035-Q1-E1-H1
 <400> 1822

acgcgtgttg acttctgtgg agaaggatca aactttgtcc aaaggagcgg agatgcatca 60
 agaagagtct gcataaagga ctatTTTTgt atagttgcc tcatggacgg tttgtgtgga 120
 aagttgtgat tgtgtagaga gtgtgtttgt gagttgtgtg tggattgtt gttttacgtc 180
 tttgtgagt accactcgta ngagtgtgat gaatcctcac aaagatgata gaagacaata 240
 aaacgatgtt gttttggtat aaaaaaaaa aaaaaaaaa aaaaaaaaa aaaaaaaaa 300
 aaaaattttt ttt 313

<210> 1823
 <211> 399
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-035-Q1-E1-H11
 <400> 1823

cgtaccaaag cgaatgataa gattcgTTTT ctgttttcac atgtcgacgt ggaagcttac 60
 ggagagagcg ttttacacag tacacatgta cgtgatttga agagcgatcg agtgaaatat 120
 atgccatgtt ctggctgaat ctttgcggtt ggatcatttac cagctaccaa gtttctagac 180
 aatcagttgg cgttggatga tgatggatat attagaacgg ttccatgaag cagcacaacc 240

aacgttgctg gtgtttttgc ttgtggcgat gttcaagata acaaattggag acaagctgtt 300
 acggctgcat gtactggatg tatggctgca ttggcagctg aacattactt gcaaactg 360
 gacaacggac atctcgatgc atgaatatct cctctttgt 399

<210> 1824
 <211> 291
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-035-Q1-E1-H12
 <400> 1824

cgtgttgcca agcgttgctg ttatcgtcta tggcgggtatt tgaaagtgat atagttggtc 60
 ctgcaattca ctttacgaaa aagtataatt caaggangcg ctacaaggag tgcatttcgt 120
 gctttaatgc ttcgggtggt aaaccagggt ggttcttttg acataagccg aaaattactc 180
 gcaacgggct atacgactga taagggtatg aagaccaata atggtgctgt tcgagaaagt 240
 gacttttacg agagagtctt ttcaagaata gcttcaaac gctctgactt t 291

<210> 1825
 <211> 262
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-035-Q1-E1-H2
 <400> 1825

aaaaaaaaagat aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaataaagg 60
 aaaaaatata aaagattaaa aaattaaagg ttgggtaaaa agtttttaaat gtttatagag 120
 tgtatatgta aatgtatatg gtattgatgg tttatctttt tgattgtgaa gacgcggttg 180
 aatatgatga ttcccgagtt aaatgatatg ctacattaaa aagatgttgt attggtaaaa 240
 aaggttacat tttttttttt ta 262

<210> 1826
 <211> 352
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations

<223> Clone ID: LIB190-035-Q1-E1-H3

<400> 1826

agggtggttc gtggatgacc tttctactca tacttgcctt tgttgcggtt tattttttgg 60
gcgaacgagg canaaagaag aaaagtccga aatatagttg ggtaccgcct accttaaacc 120
acctatcaga gtttccagcg aattcgaaca acagtcgttg tacagttaga acttgtaaag 180
aagagtgtaa attggtactt tgtgttcgtt ccgtaagctg ctctttttac caaataaata 240
cgacaagtat caacctgttt attaagattt gaagatggga aagggtaaaa tagctgcaca 300
gtgtggacac gcaacactcg gtgcctatca agatacactt cggaccaacc ct 352

<210> 1827

<211> 193

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-035-Q1-E1-H4

<400> 1827

acctttctgc tcataactgc ctttgttgcg ggctattttt tgggcgaacg atgcataaag 60
gagaaaagtc tgatatatag ttgggtaccg cctaggtgtg gcacctatca tacgttccag 120
cacagtcaga gacaagttag cagagttgtg taggttctga agtgggagtg gagagagtg 180
cattgagtcc aat 193

<210> 1828

<211> 405

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-035-Q1-E1-H5

<400> 1828

aggagaattt tgtggtccac gatatacaaa ctgacactgg taaacttgat agaaacgcag 60
ttaaaggcca tcaagtctca gtacgtcgtg aatgtcatgg aaagcggacc tggctttgtt 120
gtggaggtgt tgtttgcctc tagtagactt ggatgcaa at tttctgttgg ttgcaagtgc 180
gaaaaccttt ggcatatttc tccaatagag tgggagttga agagtatttt tggatcaatgt 240
gaacgagtgt ttgcattgaa ggaacagttg gatacgtttg taagcgagac ttgtccgctt 300

ttagatggca tgaaagcagt gcgtcaattt ttagcgaaaa tggaacccgt tcagactatt 360
 taacatcaac gttgcaagtg tcctatTTTT ggatgccttg tggat 405

<210> 1829
 <211> 402
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-035-Q1-E1-H6

<400> 1829

atcgaattta gctgttggat aaaattcgga acaaattatc ctcgattaga ttacgcctac 60
 gtagatatga ctgacgacgg tagttggatg ttgtacctca ttcaagtttc tgtttcatct 120
 tttccagctc ataacacaga ctcagcacag ttggaacggt tgtttaagaa aactggtgga 180
 actgttcaac ttgcttcgtt actaaattcg ttctttgctg aggtttttga agtctcgcct 240
 gtgtacgatg tcagggagaa gatagtgaac tttgaggtga cagactctca tggcatgtct 300
 tttcgagacc gaatatctat tttgtatgtg actccattga caagagagga cgcgaaagca 360
 gacagcgctc ctgaatttgt agagtttcct gcttttgaca ac 402

<210> 1830
 <211> 381
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-035-Q1-E1-H8

<400> 1830

cccacgcgtc cgcgagcgcg tgggttcaaa gaggacgtg gaaagtagtg tgaaaagtga 60
 accaacgagc agcaaagtgc aacaaccaga aaagcagtca actccgccct cgtcacctcc 120
 caagccacct cagcaagttg ttgagacaag taagcagagt tttgtaggtt ctgaagtggg 180
 agtaaagaga gtggcaatga cacgaatgag gcgtcgtatt gcggaacgac taaaagaagc 240
 gcagaatact gccgctatgc ttacgacatt taatgaagta gatatgtctg ctttgatgga 300
 gttgagaaat agttataagg aagcctttga aaagaagcat ggcattcgtt taggctttat 360
 gtccgcattt accaaagcag c 381

<210> 1831

<211> 419
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-036-Q1-E1-A1

<400> 1831

agcaagtttc catcagacat gttcaagaaa atgagcacgt tgggtgttact tgtagcttt 60
ctatgcggta tattagccat tgtgcatggt gcgccaccag tgatggcatc accaccaggc 120
ttccaacagg aaccaactgt tcatgttctt gaaaactatg gtagcaacta tgactcagga 180
aatggacatt ccatcaatta tatgttacag ccacatattc cattcattcc tattggtagt 240
ccttclatcg ccaactctcc ttcttatgca tcggatcaat atgctcaagc tttgtctgct 300
gccaacgcc tttcattcct ctgcggtaat gcaacggcac aaatcaacgc aactgttcaa 360
tgtcagcttg cgttctctaa ttccactgca actgcttctg gtcttggatt ggtagaaac 419

<210> 1832
<211> 385
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-036-Q1-E1-A4

<400> 1832

cttgaacca aactaaagaa gggcaacaga aaccaccgga gctagaaggc cggaaccaac 60
ggtaccgccc caattaacct ggaaaatgtg gtgcaacctt aaaaaacttg cgtccccaac 120
cacaattgtg ggcctaattg gtaaaatttc caacgggtatt tgggttcaca ctgttcaagc 180
aaaagacgaa tattgtgcat acaagtcttc cttcaagta aaccaccacg gcatagcttc 240
ctattgcaag tatatcatgg ctgtagcagc tattggtttg gttatcagct tcttcgagtt 300
ttgggatgca ttctcggaa ttttcttcaa gtggcaacaa aagttgtggt atattgaatc 360
tgctatcaac gtgtttttct gggct 385

<210> 1833
<211> 376
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-036-Q1-E1-A6

<400> 1833

agttaccaat ggtgtttcga atgtcttttg tgcaacttgg agtacggttt ctattacatt 60
caggaaccaa ctctactcc ctattatccc agctattcca gttcttatcc gatgtacagc 120
agtagctatt ccagctacag cagttacca tcttagacaa ccagttctta tagctcataa 180
taagaaagga tgctgaatgg ttggtcaggc gaaggatgcc ttagaatatt ttcgttttgt 240
ttgttcggtg aattctaaat gaataaaggc aatatagttg tcaggaaaat gtagacgtta 300
aaaaagaaac tggagttatc cctgacatta aagtatacaa tggaattact ccgattcctg 360
gtaggaaagg atgaaa 376

<210> 1834

<211> 410

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-036-Q1-E1-A7

<400> 1834

cccacgcgtc cgcccacgcg tccgagaaat tgattgcatt ttgttcgaag agtgatggcg 60
attcttcttt gatagtatct cttgttcaac atataggagg aaactttgaa aagatggggtt 120
gggaagaatc tcaaatagaa gaattgcttt ccacgcttta tgaaaagaag cctttattgg 180
catccgtact aggcacgtt agtgggtttc catctctgtg caatcgttat ctttcacagt 240
tggaagaat agcttctcca gagcctgttg acctagctat cctacctttg atgaagactt 300
gggtgttgga aggangagaa gatgaaattt ccaagagatt gatagctatt ggtcgtactt 360
ggctatttgc cgcactttgt gcgcgtttgt tggagaagaa tagaattatg 410

<210> 1835

<211> 339

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-036-Q1-E1-A8

<400> 1835

gaaatgttca agttgatgcc agccaagcac cacagttact attatacctt gtttctattg 60

ggatgcatag gcacgttgct attatctgct gcaaattggac aatccgtaaa aacagaacag 120
 agtgggactc aacaagcaaa gaatcaaacc gctgttcctc ctcggtccca gtggaaaaga 180
 gctccttgga cgatagtaga cagcttctac gctggaattg cactgtttta tttgatattc 240
 tttgctattg gtacttggag aaatgtaaca ttgtccaagc ggataggtca actgttgagt 300
 tcctgtgcgt cntctcagtt tgcttggatt ggtacagac 339

<210> 1836
 <211> 450
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-036-Q1-E1-B11

<400> 1836

cacgcgaccg gtattactga tgccttgttt ttagttttac caggcttata ctttgttatt 60
 actggtaatc gtatattctg tagacgctcg gacttgaatg aaacggaagc attggagtcc 120
 tgcttttcgt ttatgaagat atgccccacg tacaagtcgt tggagattct tttggaaggc 180
 gagcaaattt atgtagaaga actcgtgcct attgtatttc gtttcgttga agactttctt 240
 cattttcttt ttgacaattg gaaaaccgta agttacggct ctccctcgaa gaaggaccta 300
 cagtctgggt tgtggagaga gcaagcgcag aactggattc gttcttttcg tcagctgtac 360
 acagaagtgg agttatttat gaagatggta aatacgatat ccacttgtga tcgatcgctc 420
 gtaaacattt taccatcgcc agttgttttc 450

<210> 1837
 <211> 229
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-036-Q1-E1-B2

<400> 1837

catgcaacta ggtagagcaa ccgggtgatt aatgaggtgt gataaattgg aggatcatga 60
 tggcacggaa gaatgttata agtgggtgaga gtagaagcca taacggatgt aataccggga 120
 atctgatagg aggacagctt cattggagct gataaaaggt cgtgtcagga gaagtcgca 180
 ttggtgacga ttggtccacg tccaggggaag tacgaccag caatgagga 229

<210> 1838
 <211> 375
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-036-Q1-E1-B3

 <400> 1838

aagttgagcc ttgtggtggt gatccccgga attaaccaac ttattggaaa tccgccggcc 60
 ttaaaaaaca taactgcaat tattgaaaag cctgacataa aatggataac taggacaaat 120
 ctcattactt gtctgaattc tgcagaagga aatgttacgg ttgacttgct ccggcagtggt 180
 accttgaagg atatattttc attgaagctt ctgcacaata actttaagtt ggcgtgtttt 240
 aatgatgcct tgttttttagt tttaccaggc ttatcctttg ttattactgg taatcgtata 300
 ttctgtagac gctcggactt gaatgaaacg gaagcattgg agtcctgctt ttcgtttatg 360
 aagatatgcc ccacg 375

<210> 1839
 <211> 353
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-036-Q1-E1-B4

 <400> 1839

ccggattacc aaaccagaaa atgggaatta aaaggtaaaa accaggaacg gttaacaaaa 60
 aaaggaattt aaagaaaaaa attgtaaggc ggcttcatac taaaaatccg aacggattat 120
 aacaaaattc agaaaaaagg aaaattaaga taaaaccgt actgaaaacc gaccaggtta 180
 cccaaggata aaggaaaccc aaattaaggt gaaataatgg acaataagga actaggcaaa 240
 aggatatggt atctgcggta gaacatatga atgaagcagc accgactgtt aagcacaaca 300
 cagcactctg cataaaagag aaaatgtaca gtatagactg tgcggcctgc caa 353

<210> 1840
 <211> 431
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-036-Q1-E1-B5

<400> 1840

gagaaagaag aaaaaatgag cgatgcatcc gtcgagcaag tacaacagag actgcacgag 60
ttgttagaaa acctggatac gttggaaaga caagtttccc aactagagta cgacagttgc 120
cgcaaggaaa ccaaccaaga cgtgcagcaa ctcttaccac aatgcaaata cttggaagag 180
tatttggttac aactagctct acaggtggac gggttacaag taagagccta gttgccttgg 240
tatatactcg tgtgatacat ttggtcctag atttctagag aaagtgcgca aaaggctttt 300
cgtgagaaga gacaagaaga ggcaaaggaa attaccaaac tattgtctca acgaaagaaa 360
accaaccaac gagtgcgaact attgctgaaa cgattggata ctgtagtagc caacttgtca 420
taactctgaa a 431

<210> 1841

<211> 405

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-036-Q1-E1-B6

<400> 1841

gacccacgca tccaggcaca catcggacca cacttcatgc aacagcgtca gcggatacat 60
cagatacaga agcagattct acagcatttg gaaaaggatg aactcgctca actttgtctc 120
gtcttcgttt cttacctgtc agaataccca gatgaagaca tcacgtacac aagtattgat 180
gccatacaga catgtagtga gtagctctaa gtctctgaga ctttcgttcc aaatttagga 240
tatagacacg tggagtcgtc gcaagtttct tctcacttca cttggattcg tgtcatctgc 300
gctgttccgt tattctcaag attcttgggc ttccagagac tatgcatgtg ttggatattt 360
gcaccgaggt gacaagggtg acatagacaa cgctattatc agagc 405

<210> 1842

<211> 443

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-036-Q1-E1-C10

<400> 1842

ccacgcgtac ggaagaagac ttggaacaag ttgtccctct cattgcccgc gtcactactg 60

ctactttata aagcatagga aaaattatat tgcaagattg ttcattgtcca ataataagag 120
aatgccaaaa agaacagata ctttggcttt atttgatgta gatggaactc taacaccgtc 180
tcgatgtcaa gcatctcgcg aaatgttga gtttttaaga aagttgcaa acgaggtata 240
cactgtcata gtgggtggct ccgacttggc aaaacaagaa gaacagctgg gtccactat 300
tttagaggat ttcgattatg tgttttccga aaatggcttc gtggcatatg aaaatggaaa 360
attgatccac acgcaaaact tggcaaaaca cttgggagag gagaaactga aaaacgtgat 420
caatagttgt ttacattata ttg 443

<210> 1843
<211> 416
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-036-Q1-E1-C3
<400> 1843

acgcgtccag gtagcaactg cgcgctcgtt atcatacaac tacaactgtc catagagtac 60
cagcagacga agaaaaggaa tctgtcggta taaagcctaa acgtttgcat cagcctcttg 120
gagtttatcc acaaggaacc aatctggaag aattgagaga aaattggcaa attgacccta 180
tggaacttat ctcgaaagta cctccgatag tagtcaatgg ctatgtcata ccgtgtaatg 240
gaggccgagg tccattagga catccaatag aatatattcg tttggaagca ccttatcctt 300
caacttgcaa atattgtggt ttgcgatata tcaacaaaga cacttttgaa aagtggaaaa 360
aagaaaataa cgaataataa aatggaaaga ttttaaaaaa aaaaaagcta ccgatac 416

<210> 1844
<211> 428
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-036-Q1-E1-C6
<400> 1844

accacgcgt ccggttggag gtcgcatga tcgtcgacgc caaaggtcat cttttaggtc 60
gccttgcttc tatagtagcc aaggaaatat taagtggta aaagatcgtc gtcgtgcgtt 120
gcgaagaact gaatatttct ggagaacatc atcgacacaa gctcaagttc aagtcttatt 180

tgagaaagag gatgaacacg aatccttccc gcggccctta tcatcatcgc tctccttccc 240
 aaatattctt caaagcagtg agaggaatgg tgcctagaag aacagcacgt ggtaccgctg 300
 cggtgagtcg attaaaggtg ttcgaaggtg tacctccgcc gtatgacaag atgaagcgaa 360
 tggtagttcc tcaagcttta cgtgtggtgc gattgccacc agataggaaa tacactcaat 420
 tgggcact 428

<210> 1845
 <211> 119
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-036-Q1-E1-C7
 <400> 1845

accacgcat ccagtcaagc gtcaggttat atggcaacat caaagtttat ggttcaaggt 60
 agcaggtatg agtggatgat ttgatattag tttgggagat attaagtggg atgagatat 119

<210> 1846
 <211> 82
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-036-Q1-E1-C8
 <400> 1846

gatttggtaa cattcaagtt tatgggtcac ggttgcattg tttagtgtaa tattctctgt 60
 tagttttgga tcgtttgttt tg 82

<210> 1847
 <211> 99
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-036-Q1-E1-C9
 <400> 1847

atgctctttc ttcattgctt ttcttattca gggtttggta tctcgtcttc ttgtcttgtc 60
 tgttctcctt ttctggctta tgtctttttg gctccatt 99

<210> 1848

<211> 259
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-036-Q1-E1-D1

 <400> 1848

 acgtcagact caattatatg aaattcttag acatccaatt cctaaaccaa ctccaaagga 60
 aacttaatta cctccaaatt acggaataac cttttcggtg ttcatttgaa acctaatacct 120
 gttaaaccac aagtttttac caaaaattta gccaatcctt tgaacaaaag ttttttgaac 180
 caccttaaac ctctcccaag ggcataccaag cgtctcccggt tggcccctta taagacacaa 240
 attcccccca gaaaattat 259

<210> 1849
 <211> 466
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-036-Q1-E1-D10

 <400> 1849

 cacgcgtccg gtatgtttttg ggtgacgttg tattgttatc catgaagcaa ccccgtcgag 60
 ttttctttca acatagttat gtttttaggtg gaactcgtgc ctttttagtg atatttgtgt 120
 caaagggagg tttagcttca gatataaaaa atgttgcagc caatagtttc tgtataccac 180
 aaagacgaga gggagtcgca tatectggaa gagcaaacca aaaaggatta tcagaaggtc 240
 ttatgcagtg gaaacaaggg gctgcaggac ctttttttac tcttcagta ctcacatgtg 300
 gaagacgcgc agaatacttc ggccggtttct gttttggact caaagtcagg tttcggttct 360
 tgtacatacct gcagaaaaaa gtctctctgc cgtctcctca ctgcaaccag tagcaatatg 420
 acttctgctc gtctaagtag tgatattgaa gagtcataca accaaa 466

<210> 1850
 <211> 478
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-036-Q1-E1-D12

 <400> 1850

gggtgcccc acgcgtccgg aagtatctcc tgatttctat gcctgggtat ttcctaaata 60
 tgatcacgtg ggagtaggaa caggaacagt tatcgatcgt cttccatta agaaatatca 120
 ggcagcaata cgtacaagag cagcatcgaa actcagtggt ggtcatatta ttaaagtaga 180
 ggcacatccg attcctgaac atcctcgacc aagaagagta gttggaagag ttgctctcgt 240
 cggtgatgct gcaggatatg ttacaaaatg ttccggtgaa ggtatttact ttgcagcgaa 300
 atcgggacgt atgtgtgcag aagctattgc ggagatttct ttacaaggag aaagaattcc 360
 ttccgaatcc gaactgaagg cgacttatct gaagagatgg gatagcaagt attggtcgac 420
 ttacaaagta ttggatgtat tacaagcagt atttatcgca ataatttgc tcgggaag 478

<210> 1851
 <211> 435
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-036-Q1-E1-D2
 <400> 1851

accacgcgtc cgcatgatt cgatgcggca caagacagtt gtggtggcaa ctgcgcgtc 60
 gttatcatat aactactact gtccatagag tagcaggaga agaagaaaag gaatcggtcg 120
 gtataaagcc caaacgtttg catcagcctc ttggagttaa tccacaagga accaatctgg 180
 aagaagtgag agaaaagtgg caaagtgcg ctatggaact tatctcgaaa gtacctccga 240
 tagtagtcga tggctatgtc atagcgtgta atggaggcgg tgggccatta ggacatccaa 300
 tagaatatat tcgtttggaa gcaccttatc cttcaacttg caaatattgt ggtttgcgat 360
 atatcaacaa agacactttt gaaaagtgga aaaaggaaaa taacgaataa taaaatggaa 420
 agatttttaa aataa 435

<210> 1852
 <211> 350
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-036-Q1-E1-D3
 <400> 1852

acgcgtcgag cgagtgtgaa cgatgcttga gcggcagaaa attcatttgt tgtcaccact 60

gtacccccct tatctttcag ttggttcagt ccatgttttc ggaagcgacc aagaaaaggg 120
 ttccgtctgt tccgaacca tttatttgcc tcaagctcat caaatttttt ccgcaagtac 180
 tattcccgaa accctaggaa aattccttgc gcgttgactc cattggaatt ttcacgattt 240
 tagctccgat agtcgtcgat tgatacgtca tagcgtgtaa tggacgcagt ggtccattat 300
 gtgcatccat actattttatt cttttgcgtg caacttctcc ttcaactttc 350

<210> 1853
 <211> 206
 <212> DNA
 <213> Cyanidium caldarium

<223> unsure at all n locations
 <223> Clone ID: LIB190-036-Q1-E1-D4

<400> 1853

gtttagtgtgta aactgccta ccattgttgt ccagaaccaa agcctgaaaa tggaagccat 60
 tcaagaattg tttcaatata cattgtatac tattgctaag aagaatctaa tggaaaccaa 120
 agcgtatttg agcaagtttt ctttgtttcg tccatgtntt ggaggaatg actgtgagca 180
 ttagaaagaa gaagacagca agaaac 206

<210> 1854
 <211> 300
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-036-Q1-E1-D5

<400> 1854

gttgctgctg cttttgttaa tgagcttccg agagaactta tcttgagaat tccatttatc 60
 ttggctcagg tgttcactat gccatcaaaa agttagagtg ttggccaata aaatcgtaca 120
 accattttat tctgggaaac cacagctttt gggttctggg ggtactatgc tcgctgggtca 180
 ggaacttaac tgaattcacg gaagggatga catctactta ttccaatcat cgatatggct 240
 tactgattcc aaaacgtcca ctctatcatg ggtggaatcc aacttacaaa acctcttttt 300

<210> 1855
 <211> 416
 <212> DNA
 <213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-036-Q1-E1-D6

<400> 1855

attcgcccgga tcgacccacg cgaactaccc acgcngttct cgagcgcacg gtgctcactc 60
cagttatggt cnggtatccn atttgatgt tcgnagctgc tnggcttttt gatgcaanaa 120
ggaattggaa gtatttcgna aaaggcattg taagaaccca aatgagacct taatttagct 180
atcttgggaa ggagccaata gtatccgaat aaaatacaac gtcacccaga catttattat 240
caaagagtgg atgaaatgat tatcggaggt ggcagtgtgt atacttttct tcgagtatta 300
tattccatgc cyattggaga ctccatttat gacgagcctg gatcacattt ggtctaaaat 360
aataagacag aagccaaaga aagaaacgta tagatacact ttccagtcg attttg 416

<210> 1856

<211> 158

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-036-Q1-E1-D7

<400> 1856

gtccgatatc tatttattaa cgccaatatt tacggtatct attacgatta tatatcgtct 60
tattcttatt tatataaaat accatctata tatatactat gttgattatt cttctcctag 120
atcatttttt tccgggtaac taaatctttt gttttctc 158

<210> 1857

<211> 384

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-036-Q1-E1-D8

<400> 1857

agaggacatg gaaggaaggc gcagtatcct aagcaagtgt ggcaccctt tggaggcaag 60
tttctcatc cgagggattg gaagaagcac acgaatatag ctacccttat tatggcactc 120
actgtgatcc ctattattta ctatgccgag aagcactatg tctattacca gtatccttat 180
cataagattc cttggaggcc caatttgaaa acttttgatg aagatttgga ggaacgaaga 240

aaggccaaga tggagaggaa aagtgttgca agcgatggtg atgaacagct cgattcgtag 300
aacttgggaa aaaaggcatt ccttgtttgt tgaagtgttt tcgataaatg cacttgtcaa 360
ctagttcaag taaatcctag tttt 384

<210> 1858
<211> 456
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-036-Q1-E1-D9
<400> 1858

ccacgcgtcc gccaacgcgt ccgcaaagag aggggaattcc cggattccaa cccgtatata 60
tgtatgatga aggttccaca attgactgga ttccttgctg acgtaaaactt acgtgcagtc 120
atccgggtat caagtccac tatggaccgc acaattggta caaccacgat gtatcgatac 180
tagaagttga tggaaaacttt gacaagttgg aggaacttat ttacatcgag tcgcatctta 240
ataataacttc cagcaaattt tatggggaaa taactcaaca actcttgagg aacgcttctg 300
ctccaggatc taataacgga actggactct tccaagttct catagcctta aagataagac 360
aactttatga agaacttaca ggaaagaata tagctcctgt tctcgtttag ttacaacggt 420
attctcttcc aattatgtag taaacttcgt agtcgt 456

<210> 1859
<211> 392
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-036-Q1-E1-E1
<400> 1859

cacgcgtcca atggaatgat ggatgatatt atagaagaga agagaaacta aaagaaggcc 60
ctggaacaag gtactttggg ggaaatagat ggcggcgatg tatccaaagc atcgtttccg 120
atattggata ggaaagggtt ccaagacgcg agtaaattgt tgaaaattga cggacaagga 180
catgtagtat tccataagaa gcacaagttg atggccaaaa attgcgtagt tcacggcaac 240
ggtgcgcaag aaaatgccaa aatacgctaa agcagctggg caatcatttc aaagccatcg 300
atgaggacaa ggaatgagat atcttttagct cgctatatgt agagaaagag agagagagat 360

gcaagaaaac ttggataaaa atacaatcat gt

392

<210> 1860
<211> 307
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-036-Q1-E1-E10

<400> 1860

cacgcgtacg ccaacgcgtc cgcccacgcg tccgcccacg cgtcagagag ctttgaaggt 60
ctcatggata atgtgtgaaa gcgttgaaat cagtgcctatg tttatgatgg tcgatatgat 120
ggcaagggttg tgggtgggttc gtggtgtggg aaacatagta tttccctgcc agcaattggc 180
agttactatc atcgagagca cctaactctg atctccgccc aagttagttt tattctacta 240
cacctttctg ggcgagggga taatgacgga ttgtttgagg ttggttgca tgttatgagg 300
gacattg 307

<210> 1861
<211> 357
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-036-Q1-E1-E3

<400> 1861

atatataaag ctaacgttca aataaactgc ctttaaatac ttttaaaagg acacaactta 60
ataattaagt ttcaacctga tagaaatcca gaacaacggg aagaaactga aagaaacttt 120
aaaagagtca aagaagctta tgatttatta aggcagcgaa aggagaacca gtttgaaagg 180
acggaatatc gttctggaac ttcttctcgg tccagctacc gtcaggactc taggaaaact 240
caaactcgta acgcctatta tactggacag cattattcag gtttcagcag gactagcaat 300
cggtctacga agcctcctcg tatgttggat attcatgggt tgcaaattct cgtcttt 357

<210> 1862
<211> 386
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-036-Q1-E1-E4

<400> 1862

acgcgtccag tgaaagatgc aatctagcca tgctccaaat ggtatgctga tagaacgtct 60
tctggagttg aacataataa tgaagtttca tctgggtttg cgatccaaga gacaacggga 120
acgattcgtt ggagactctt taaggagagt cagctcgcgc ttatgatata ttattgcagc 180
gttaggagaa ccagtttgaa aggacggaat atcgttcttg aacttcttct ctgtccaact 240
accgtcagga ctctatgaaa actcaaactc gtaacgccta ttatactgga cagcattatt 300
caggtttcag catgactagc aatcggctca cgaggcctcc tcgtatgttg gatattcatg 360
gtttgcaaata tctcgtcttt actcta 386

<210> 1863

<211> 404

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-036-Q1-E1-E6

<400> 1863

accacgcgt ccgcggacgc gtgggacgac gcgtggggca agcgtgaacc gtgagggtag 60
ttcatcatgg ttgagacaaa acttcaagat ggtgttagtg cttcgctttg gactgttcgt 120
ctcttctctt acacagttat tttagcattc tctgtcacta tcattggctt ggatggacgt 180
taagcagaca acatatggga cgatagctta ttctatgatg ggaagtacat taacttttgt 240
gcttattctg cctcttctgt tgtaaaacga ggggaccatg gagcgtgtaa atatgtcatg 300
gcgttggtgt ctaatagttt gattctagtc ttttcttgg ggctttatac attttagat 360
gcgttgatc ctattcttaa caaggtttgg tttactgaat tggg 404

<210> 1864

<211> 352

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-036-Q1-E1-E7

<400> 1864

cgacccacgc atccaccac gcgtccgcgg acgcgtgggc ggacgcgtgg ggcaagcgtg 60
aatcactggg ggtagttcat cagtggttga gacgaaaact tcatgatggt gttagtgcct 120

ctctgtgggc tgttcgtctc ttcactctaga taattaattt agcattctct gtcactatca 180
 ttggattgga tggacgttca gcagacaaca tatcggacga gagcttaatc tatgattgga 240
 aatatattaa cttttgtgct tattctgcct cttctgttgt agatggaggg gactatggaa 300
 cgtgtacata tgtcatggcg ttggtgtcta atggtatgat tctagtcctt tt 352

<210> 1865
 <211> 469
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-036-Q1-E1-E9
 <400> 1865

gggtgcccc acgcgtccgc caacgcgtcc gccacgcgt ccccccacgc gtccggagct 60
 ttgaggtctc tggtagtggt gaagcgttga atcaagctat tttatgtact cgatatgatg 120
 gcaaagtgtg ggtgggttcg tggtttgga aacagagtat ttccctgcca gcaattggaa 180
 gttattatca tcgaagtcac ctaactctga tctcctccca agttagtttt attccaccac 240
 atctttctgg gcgatgggat aagaagcgaa ggtttgaggt tgcttggcac tttattagga 300
 aattgcaacc atcacgttta atcagtaaag ttgttaaaat agacgaggct agtgaagtgt 360
 atcgacaaat ggatgaaaac cccgatcatt gtgttcagat attgttttct tatgagcata 420
 caacataatg ccatttgtgt ttatttctca atcatatcta ttctactcc 469

<210> 1866
 <211> 446
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-036-Q1-E1-F10
 <400> 1866

ccacgcgtcc gcagaagcta agcgccctca ggcttggtta gtactgaggt gagggatcac 60
 tcgggaaccc caagtgccgc agcgttgaaa atttttcaag tatttcgcga gtaataatat 120
 gtgttgaaat atttttctac taagaagttc tttttgcttg gcgctgtttg aaaataacgg 180
 aatgattctt gtctgacca gtcgataggg tcaagggatg actgtaagag gtatccaata 240
 acttgatatt tccatcgtat gacaagaggc ttgttgga aaagcagcgg ataacttttg 300

cgccgattgc gtcgtgctta agttgctcac tttctgctg accaagaggt ttcaaacct 360
 gcagtgaag gagaaatata ttctcactga ggaacttgga ctgagcgact agggcaagat 420
 gcgtgttgtt tgggttgcgg ttttgt 446

<210> 1867
 <211> 266
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-036-Q1-E1-F11

<400> 1867

cacgcgtacy ctatgactca tcgcactcag gcgtggtaat tactgaagt tatggatcac 60
 tcaggaacca caagtgccgg aacgttgtgt atttcacacg tatttcacga gtactgggag 120
 ttgtggacgg attttacaat aagtatgttc ggtatgcgtg gcgctagtat gaagataagg 180
 gtgtgatgca tgtcttgcta agtcaatgcg gtcaagggat gactggtaga agtatccatg 240
 aagctataat tcatatgata tgagac 266

<210> 1868
 <211> 432
 <212> DNA
 <213> Cyanidium caldarium

<223> unsure at all n locations
 <223> Clone ID: LIB190-036-Q1-E1-F2

<400> 1868

acgcgtccag gttacttcat tgaattctga aggctgccgt aacttacagc agtctttgtt 60
 taccatggag agcgagacag tgaaaaatga taagctagct aaactacaaa gaatggctgt 120
 gaatgttcga actggtggga aaggtaccgt tcgaaggaag aagaaggcag ttcacaaggg 180
 cacaccgacg gatgataaac gactgcaaag cactttgaag cggcttggtt taaaccaa 240
 acctggaatc gaggagggtca atattttcaa agacaacggg cagggtgatca actttactac 300
 ccccaaagtt caagcagcca tcggagcaaa cacttatgtg gtatcaggcc aaggggaaac 360
 aaagtcnctt caggagctgc ttccaaatgt actcaatcag ttgggttcgg acaatctagc 420
 tcaaatgcgc tc 432

<210> 1869
 <211> 404
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-036-Q1-E1-F3

<400> 1869

gaacggtcct tccaacggca attcaaaaat tggtttcaat gaacgttcct cgcgcccaaa 60
 aggtaataaa ccttacaaag gaattccctt tggacgggaa cccaatgaat ttgcctttgg 120
 ttacaaaact tggcagtcgt tcttctcgga aaacatcgaa tatgacgaat aatagtactg 180
 gtggagacta tggcggtcgc cgcattcatta ttactgcaac tggaaagaga cgaggtggtc 240
 gatggagacg taaaaacttt cctgtgaata atgaacgcatt gatggattaa gaagaagaca 300
 cacaagtagt tgataacatt ttctttataa aacttttctt tgttggata aaaaaaaagt 360
 tgcagagaaa aaaaaaaaaa aaaaaaaaag aaaaaaaga aaaa 404

<210> 1870
 <211> 426
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-036-Q1-E1-F5

<400> 1870

actaatttat ttggatgaga atcgagagcc atgtaaaggc cgcacaaagt cggatactat 60
 tgagaaagca ttaggcattg aaagaggcca agtttttcgt tggagcgatg tttattggga 120
 gcgaatcacg gagttgggac tttttgatta tggttcgtgca gagttggagc ttcgtgatga 180
 ttcttcagta caagttgttc ttcgtgtgcy tgaacgtcct tatagtcgtt tggaacctgg 240
 aataggatat ggctcaggtg aattatttgg cgaattgtca tttcaagata acaacttatt 300
 tggacgcaat cagtattctc aatttgactt tcagaagaga caatttcaac attcagtatt 360
 atcttttagag tttgaggatc ctcgtgtagg acagttattt gggttatcgtc tcaaagtata 420
 tcgtga 426

<210> 1871
 <211> 433
 <212> DNA
 <213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-036-Q1-E1-F6

<400> 1871

agctgggtgg agtagcgaaa caagagaagg gaagtaaaag gtaagaaaga ggaaaggttt 60
acgagagaag gaagtagaaa gaagagagtg taaggcggcg tcataataga aatccgaaag 120
gagtagaaga aaagagagag aagaaagaaa agaagagaaa agccgtactg aagaccgaca 180
caggtactcg aggagaaagg agacccaaat taaggtggat agtcgagagg aaaaaagccc 240
agaagccaag ataaggtatc aaagtaaaga aagaaggaaa aggagaagaa gagagggtag 300
gcttagaagc agcanaccag agaggaaagc gttaaagcat gaaagaaaag aaatccgaaa 360
aagaagagaa aaaggttaaga aagaggaccg aatcagggta agaggtanan gagcaagaag 420
agaagagaga atg 433

<210> 1872
<211> 338
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-036-Q1-E1-F7

<400> 1872

gacccacgca tccaggcaat tgcagcaatt tcggctaatt gttgtggaac aagataacat 60
gtcgacccag aacgcagtag gctctgcaa cttgagaagg tgagactagg ggtactttat 120
gattgtctac taagtgaat aaggagaaat acggcttcac gcagttccgg tttaactagt 180
tctggtacga gcacctcgac gaagtatttt tccgcgcgac tgtatgagcg acgatccaac 240
cggtttgaga gtgttggttc tgtgtgcttt tgttggttca tttggctgat ttcgtttacg 300
ggatcgctac tgcgttatgc ttcatacctt tgtcgaaa 338

<210> 1873
<211> 389
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-036-Q1-E1-G1

<400> 1873

accaagcgtc cgcgtgaggg tagttcatca tgggtgagac aaaacttcaa gatggtgtta 60
 gtgcttctct ttggactggt cgtctcttcc tctacacagt tatttttagca ttctctgcca 120
 ctatcattgg cttggatgga cgtaaagcag acaacatatg gaacgacagc ttattctatg 180
 atgggaagta cattaacttt tgtgcttatt ctgcctcttc tgttgtagaa ggaggggacc 240
 atggagcgtg taaatatgtc atggcggttg cgtctataag tttgattcta gtctttttct 300
 tgtggctttt tacatttgta gatgcgttgt atcctattct taccaagttt tggtttattg 360
 aattgggtat caacgtgttt caaacaatg 389

<210> 1874
 <211> 438
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-036-Q1-E1-G10
 <400> 1874

gccaacgcgt ccgagtcaat accgtcgttg ttcttattgc tacttgtagt ggcagaatat 60
 ccatctgttg gtggtgccgg tggttgctgt cctcgtctgc tggatgaagag tttcttcgcc 120
 gggcttttat tctcgtcgtc atcgatagca agatatttgg aaacgagttc ttgtacattt 180
 gggctctatcc agtggctcgt attttctttt gtcgtgttgg agtaggcaac taccgatgat 240
 gatgaaatag cagtcttgtc gtcggaatag gaacagttgt tgctagcggg aaccaaggaa 300
 gcaacgcttt ttgaatgagt tggttggtgg tggttgactt gacgaccata gtcggtttcc 360
 caaaacactc gagtggtttc ttcttgagct gctgggtgat atggctgtcc caccagttgg 420
 ttccaagaac cacagcgt 438

<210> 1875
 <211> 384
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-036-Q1-E1-G12
 <400> 1875

caagcctcta caatgacgtc gtactaacgc gtgtgccgaa atcggtctgt aagcgctata 60
 gcgggaacta tagtaaaggg gatgcccttg tgggataaga tctcaacacc aaggtttcag 120

tctttatata caaatgtcct ttgaaacta atatatgata cagtcttctc attttcgttg 180
aactatatta catgtacctc tatgatctat gcaatatgtg aaaatagtgg aatataattc 240
tttacggatc caggtatatt tattgatgta caccactatc actacacaag ttggagatat 300
aatttatatt aatcgtgtac tactgttact acgtaatatt cgaacttaga tatgatattc 360
gtttacttac aatataagtt tact 384

<210> 1876
<211> 429
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-036-Q1-E1-G2
<400> 1876

acgcgtccaa aaaatgtggt tggtcggtga aaaccatggt ggcagcttct ccttctcgca 60
agttggaaat acaatgtgga gtattgaaa gaacgttgaa agatatatcc gtttatcaaa 120
aggagtttac cgagatgaag gagcaaatac aacgggcaac acccgatcaa ccatatcagc 180
aatggcaaaa agtggttgaa gaaacggaga gaatggtatc ggactcgtat aggaggttat 240
cggaagcggg agacagttta caaaagttgc aaacgcagat ggaaaatttg cgaggaacca 300
aagaatggga acaagccgat gcgttggttac aagaagcaca gcaggtttta tcacaaacct 360
cgaaagttta acgaaacaaa gcaatgtatt gaaactgcgt cgacttggtc aagatgcgag 420
catcgtaat 429

<210> 1877
<211> 261
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-036-Q1-E1-G3
<400> 1877

taaaaccgaa gtcacccaaa atttgtactt ttttgtcaaa aacgccgatt aaaggaaggc 60
ctgacgtacc acaattagac aaggtaggtt ttgaatgtga aaatcagttt gtagccggca 120
acggttttga cggatgatcaa cgtttgaggc accttgattt cgttggcata tacaatacaa 180
accgatgaga gaaacggcac aaggggtttt ccgtattgtg gctggaacac cggctacttg 240

aataaaaagaa agtatattgtg g

261

<210> 1878
<211> 421
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-036-Q1-E1-G5

<400> 1878

agcgaaagat ttgtctcgaa tctttcctca gcaagtccaa ggattggctg cgaaggctga 60
cgaatatgcc agagcactgt ttacaggtgg tggcactcta ttcgaagaac taggtttcta 120
ttatgtcggg cctgtcgatg ggcactcttt agaagacctc attccaatac tcgaaaatgt 180
acgagatatg aatgtgaata aaccagtcct cattcatgta aaaacagaaa aaggctcgtgg 240
ttatcctcca gcagagaaaag cgtagataa gtatcatggt gttactagtt ttgacattga 300
aactgggaag cttctgaaga aacaagagac taagtcaact ccagctcctg ccagttattc 360
taccgtattc gcaaacacat tgattcagga agcagaagag gatcgtaaga tcgttgctat 420
c 421

<210> 1879
<211> 395
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-036-Q1-E1-G7

<400> 1879

accacgcgt ccgccacgc gtccgtggac ttgtccgata gcaatggctt tggattggct 60
tccagtaatc atcatcatcc acatagtaat agtgggtggg gatgtgaaga tattcgcgat 120
tggtggagaa aagaattttt atttctgcca tcacgtgaaa gctatattga atattataat 180
catatttcca ggcgattgtg taatcttacc gagtcgttgt ccatttcctc cttacttgtc 240
tagatgggat aaaaaaaga tatctgaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aaaaaaaaa aaaaaagaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360
aaaaaaaaa aaaaaggggg ggcccccta aagg 395

<210> 1880

<211> 423
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-036-Q1-E1-G8

<400> 1880

gacccacgag tccacgtgat acagagtagg aagaaaagag aagagagcta gaaaggaggt 60
 aaaagaagag taaaaggact agaagaggta cggaattcac gaggaaggag cgtgaaggaa 120
 ggaggaatcc caagtaatcg aggaagaaaa agcttcggtg aaagcgtgaa cggattttgt 180
 acacactgcc cgtcaagttc tggaagtgtg ctaggaataa gcaggagaag tagaagagag 240
 taggaaaaga agaaaggaag tgaagacgta agacgtgata cagagtagga agaaaagaga 300
 agagagctag aaaggaggta aaagaagagt aaaaggacta gaagaggtag ggaattcacg 360
 aggaaggagc gtgaaggaag gaggaatccc aagtaatcga ggaagaaaaa gcttcggtga 420
 aag 423

<210> 1881
 <211> 379
 <212> DNA
 <213> Cyanidium caldarium

<223> unsure at all n locations
 <223> Clone ID: LIB190-036-Q1-E1-H1

<400> 1881

agatattgca gctagtggga aagcggaacg aaatgatctc caacaatggg tctcaagttt 60
 gcacaaaatg ccaaaaagca tcaaatagtt attcccaaac gttacaaaac tcatcagtgg 120
 atgattgttt caacttctgc gaaaactggc aatgcatctc ctgctacaca gtgctatact 180
 tcgcacactt cctatcagaa ccttgtaaag gaagtagaaa agaaatggag cacaggaatg 240
 cgtattgttt tgtaagttt cactgcanga atgtggactg cagtattgaa tcagaagagc 300
 actggctatc aagagcaagc ttacattat tgtccaggag ctgactttcc acgagaatgg 360
 gttcgacaga aatgggatg 379

<210> 1882
 <211> 465
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-036-Q1-E1-H10

<400> 1882

cacgcgtccg aaagaggaaa aatggcaagt cgaggagtac gtgggttttca gttgttttagt 60
cgctgtttt cttcggttac tagtcgtcca attagtattc catggatata taggatacct 120
atctcgagtt ttactacagt gacttcttta aaggtctctt ctaggggcaa catgaatata 180
aagcttgtag ctcaagtatt caaacgtcga ctgtttctac aaagccaacc aacccccaac 240
ccagactctg tcaagttttt acctggaaga gaagttattc ctgacggaaa cagtatcgac 300
tttcccaatg cacaggctgc tcaaatttct cctctggcaa aaagactatt tcagatacaa 360
ggcatatcgt ccgtatttct aaggccggat ttcgtgactg taacgaagaa ggaagatgtt 420
agttggtcag tattaagac agaaatattt gaagcaatac tggag 465

<210> 1883

<211> 450

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-036-Q1-E1-H12

<400> 1883

acgcgtacgc ctacgtcgcg tgtttgcaat gtgctggaat ttatttcggc taaaaattga 60
aagatttttt ggctttttca ttggagggtg aaaactgcat atctttgata caagtgttga 120
tttgtacttt tattcgagaa tatcttatgc tttcgcgacc ggagtgtagt ttgatgcaat 180
gtgggacgag ttggtcgtag ttactgaaca cggaatcttt gcaagacgtg tttttggaaa 240
agcgtacaaa tagcttgaga cagtctgacg caattcttta cgtccaatat tcacttcaaa 300
cacttcattt tatgattcat cgcttgaagg agagaggtag ctggttgaac tttctgttga 360
attacagtgt accgttactt tcggttttga aggcaattat cgnaagacaa caacagaatt 420
tcccatttct gaaggaagcg agtgaaatat 450

<210> 1884

<211> 433

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-036-Q1-E1-H2

<400> 1884

ccgggccgac ccacgaatcc acccaggctg gttgcctcta tgtcggacgt catggaagag 60
aacgaaaaaa tgcaaaaaac ggtacacata ttgattctaa caatcaaagtg tggataaaga 120
aaattgaccc aaaaggccac gtggaacata tagattggtc aagaaacaac aatgcagtga 180
gagatgctgt tggagccagt tttccaggat acttagaaaa tgaagctgtg gtttggagta 240
gcaaaagacg aaagtggata tttctccctc gacgttggtc gttggaacct tatgatgatg 300
aaaagaatga gtttcgaggt tggaataaga ttattatttg cgatgaagat tttttgcaca 360
ttcgaatgtt accgttgaac atggaacttg aggaagaaaa gggcttttct agtgccaagt 420
ttgttcctgg ctc 433

<210> 1885

<211> 328

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-036-Q1-E1-H4

<400> 1885

accacgcat ccaccacgc gtccgggttg gtcctgttt acatgcggag gcaaacctga 60
acctcaaaag cttcagggaa tacgtgcagg tttaataccg gatataattg ataccagcag 120
aagttttcaa cttattgcag gtaatttcag ccgatgcaat cgcaatggca cgaaggatgg 180
catccgatga aggtttattg gcaggaatat cttcgggagc tgcatttaac cctccatttg 240
ctattggaaa gagaccgga catcgaggga aacgaagatt gtgtatgatt ccaagtttcg 300
gagaacgata tatgacaagt gcaacgct 328

<210> 1886

<211> 422

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-036-Q1-E1-H5

<400> 1886

accacgcgt ccgccacgc gtccgcggac gcgtggggaa aaatctcgct ggaagacatt 60

tcacctcaca ttttgtgaca atcattccat cctacacgca tttttactca ttgttggttg 120
aaacgatatg gcagagaagt tgacagagat caaggataaa gttgccgata aaataagtga 180
aatgactgga aacaagtcac ctcaggacca ggcgaaggat aaagctagcg aggcagggga 240
ccgtatgaag gatgcaggaa gtgctatgaa ggaaagtgtc caaaatgcag gggacgccgt 300
caaggataag atgtccagca tgaaggagtc tgtttccaac aaagcggaag gtgtgaaaga 360
aggtctgcaa aagtagatac tccgagggtta tctcatttgt ttcgtcttgt ttgtgggtta 420
at 422

<210> 1887
<211> 417
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-036-Q1-E1-H6
<400> 1887

ccacgcgtcc gggggcaagt tgacctctgc tttgccacct ttttttggct gtcctcatg 60
tgttttgctt ttttaaagct tgaagactat ttccttttat gatttaggga tttctccaga 120
ggtttttgta ctagtattat tcagtccttc gtggtgaatg aatgactcct ttgacaacaa 180
ggttgtcatt ttcccgccat ctccacagct tcaaccgcca atttgtgtcc gcatatatac 240
atatatttgt acagactcgt ggtgtagaaa gaagagtgc aagtggttgaa aagtaacagc 300
agagggttag tatacctgta gaggaagcac ttgaaaaagg ggtcacgtcc ttttacctgt 360
ctacaagtat ttttttgctt gtagaaattg caagtttagt gtactcgaca atgtttc 417

<210> 1888
<211> 371
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-036-Q1-E1-H8
<400> 1888

acgcacccgc ccacgcgtcc gggttggttg gggtagcat gccgccgcaa gtagaaacaa 60
gtacaccttc tggtattgca gtaggcctga ataaaggaca cgccgttacg aaaaggaagt 120
tttcaaccaa aggactgaaa agggagaaaa aacacgcca gtttgtacga gaaatcatcc 180

gtgaagtttg tgggtttgct ccctatgaga agcgaatcat agagttgttg agagttggga 240
aagataaacg tgcgctcaaa tatgcgaaga agaggttagg aacgcacgtg agagcaaaga 300
agaagagaga tgagatggcc agcgctttac gtcgtagtgc acggaaataa aaatagaaaa 360
tattgggctg t 371

<210> 1889
<211> 408
<212> DNA
<213> Cyanidium caldarium
<223> unsure at all n locations
<223> Clone ID: LIB190-037-Q1-E1-A1
<400> 1889

acggacgcgt gggcggacgc gtgggaaaaa aaaaaaaaaa aaaaagaaaa aaccaaaaaa 60
aaaataaaaa acagacaccc ttaactaaga ccaaccaatt tgctaactac ccaatctagg 120
gggaaccttt tgacattaat ttacaaaaat ggtgtctgca acttaattta acgaatttca 180
tttgggaaat tcaaaatttg gcaaaaaagt ttttgatggt acctgccgga caatcctaag 240
catgatggat aggctggaaa tgcgcgtgga gaagatatcg tgaagaatga gccatccata 300
tattatagaa atatatatat atatatatat attggtgaca tatataaagc aatagacaca 360
agttgggtat tatttcanaa aaataaaacc gccaccacgc cttgcaat 408

<210> 1890
<211> 256
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-037-Q1-E1-A11
<400> 1890

gtgatgtcag aattgttatg gcatctcgtg aaatgccaca acgcattcca aataagaaga 60
aaaggagtca cgctttcaac agagaaagga aatttaaagg gtgtcagtac ttttaaatat 120
tcgggtcatg ctcaaccgaa ggccgtcgac attgctccag ctacagaaac ttttgggtatt 180
ttgtactcga agaaacgtac caagaaagat gctgctcgaa aaccttcgac ggaatttcat 240
actgatgtcg tgaaaa 256

<210> 1891
 <211> 391
 <212> DNA
 <213> Cyanidium caldarium

<223> unsure at all n locations
 <223> Clone ID: LIB190-037-Q1-E1-A2

<400> 1891

aatcattgtc atcatgaaag ctgctgtctt tgcattcttt gtcttagcac tatgcgccgt 60
 tgctattcaa gcttctcctc tagaggacac tttgggtgcc tttatgcggg gtggttatca 120
 atcgcaaagc caagcaccaa aacctagctg ttgcaagttg agctgtcatt atacccaaat 180
 ttgtgaacaa gttatcgctc aaactcaaca ggctgtccan actcagcaag tttaccanac 240
 acaacaagta cagcaaacac aacaagtttc gtcagcatat ggacgcaatg aggtatccan 300
 anggggatat ggccaacagt ctgtagcccc agctcctgca ccttcctgtg tcagtgttcc 360
 agtcaagtgc tgtattgagt gctcgtcttg c 391

<210> 1892
 <211> 227
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-037-Q1-E1-A3

<400> 1892

accacacgt ccggttatac ccaaaaatca gggcaatgca attcataatc caagttgaaa 60
 caaccacagg aaaacttgcg tctactcaag gagacaattt gcgagcattg aaactcgggc 120
 agaggttctt tgaacacccg aacagataaa atcagtgaaa acttgagaa ccatcaagcg 180
 cgtgtcatga acgcgtaagt aattgactgc ttacgatatg tcgtcga 227

<210> 1893
 <211> 346
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-037-Q1-E1-A4

<400> 1893

gtcaaattac ggtcgagcac gcgtccgacc acacgtccgc ccacgcgtcc gcggacgcgt 60

gggcggcaca ggaagaaacg gctattcctc cteccaccatt cttgcgcttt ctctctcaat 120
 gcaaccacaa gataaaggta ttcccgaata ttgtcaactt gacagagtac ctctacaaga 180
 aaagaatcaa tccgttcac ccttgctcc aaccgacgaa catacctcga aacatacatc 240
 gacttggtat cctccttctc tacaaagaaa cacactttac caagtatacg aaatgtatgc 300
 atttcgtggt ggtggcgtag ggtttcgaaa aaccggaatg aaagta 346

<210> 1894
 <211> 381
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-037-Q1-E1-A5
 <400> 1894

cgtccagtta tacccaacaa gtattgcaag ggacgagaaa aggggatata tcggtaggac 60
 gatatatatc ggatacttta tcgatgatac ctcaattgga tagtacaagt atagagaaac 120
 tgtttgagaga tcagttgaga gatgtgttga tgatacttta tttagacaag ttgatttggg 180
 caaatgcaaa gttggcagaa aagtttttga tggtagctgc cggagaatcc taagcatgat 240
 ggataggctg gaaatgcgcg tggagaagat atcgtgaaga atgagccatc catatattat 300
 agaaatatat atatatatat atatattggt gacatatata aagcaataga cacaagttgg 360
 gtattatttc anaaaanaaa a 381

<210> 1895
 <211> 205
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-037-Q1-E1-A7
 <400> 1895

acccacacgt ccaaattcat tccatccttc cgaagacgat tggatatttg ccaatgatgc 60
 actactttat ggtggtttac gagaagaatg gccatcgaat agtccatggt tggaatggaa 120
 tcgtccacca caacaacaac aacttgattc cgtataacca agaaaagata atcacaagga 180
 agatatttga gaagaagttt tttcc 205

<210> 1896
 <211> 372
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-037-Q1-E1-B1

<400> 1896

cgtccaatgc aatatccaat gaagagagcc ttttccaaag tatcctttcc aaaatataac 60
 aaacctgaga tacgtacaga aatacctgga cccagatcaa aacaactatt aagtgagatg 120
 aacgtgcttc aagaaacaag gactataaac ttttttatga acacagccaa gagtcagggg 180
 acatatgcag tggatgccga tggaaatgta atattggacg tttttggtca cattgcctct 240
 ttacctttgg gttacaatca tcctgcaatg gcggaagctg cttccaaacc tgagtgggta 300
 ccgtttctct tacaagaca tgcgctaggt gtacaaccac cacgaagagt ggccaagaga 360
 gctaagagaa ac 372

<210> 1897
 <211> 356
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-037-Q1-E1-B11

<400> 1897

tgcaactctt tttggtatcg ctcatatatg atgccttttc agtagcgtga agaccattta 60
 atctataggg atttatcaag ttctgcagag atatctcgta cgagtccttt tccgtgtttc 120
 gtaaagggtg aaaggctcct ttcacaacac ctttgtcatg atcccgccaa tctccacatc 180
 ttcaattact aatttgtgcg cgtatgtaca agtatatctg ttcagacacg tgggtgtagac 240
 agaacattgc aatggttgat aagtaattgc agagtactaa tgtacttgta cacgaaacac 300
 ttgacaatcg gtcacgtcat tgtacatgac aacctacaat agcagtccttt tgcacg 356

<210> 1898
 <211> 413
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-037-Q1-E1-B3

<400> 1898

cgcccgacca caagtcgcc caccgctccg ctgacgcgtg ggctttgtgg ttatattgaa 60
 caagttccaa ctttgatacc actttttgca accgctactg agttcctttt atacaactta 120
 acctttctaa cgaacaaagg aatgaaacta gttgaatatg tgaattttct gacttggggg 180
 ataagatgga cgttacaacg aaacttaacc aactcacaaa ggaaacagca tttcctctta 240
 attctaacta cgccaacact gtgtcagtag ccggcgggaa gacgagtttg gaagaaaagc 300
 gtcttggtgt attcaacttg agagaaagaa acaaactgta cagttagata atcgagaaca 360
 gaaggttcct tcgacaacga tggcgacaaa atcgcaatag gccactcaaa tgt 413

<210> 1899
 <211> 426
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-037-Q1-E1-B7
 <400> 1899

agttgcaact tttgtatctc atcgtttggg ctgtaaatgt tgctaattgga acagggtaag 60
 caaccttaaca ttatatatgt tgaaaactaa atgaacgaaa agaagctggg gtgagcatgg 120
 aagtgcccac tattagtgtt gccaaacatg actctgaaga tagccacgaa gaagtgagga 180
 agcgggttgag tagagtaagc gctccaccgt ttcccgatcc tactttctta ggattatctg 240
 gtttttagttg cacaactttc attcttagcg taatgaatgc caaattattg ccagcgagga 300
 ttgtaccagg aattgtaggg cctgcctttt tctatggtgg aacggtacaa atgttggcgg 360
 gccttttatg ttttgtcact cgtaacatgt ttggattggg ggcatttact tcatttggag 420
 cttttt 426

<210> 1900
 <211> 391
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-037-Q1-E1-C3
 <400> 1900

cgccattttt gattgtggtg aaaccgtcgt gaaaccaagt tggcttcgat gaatgatgaa 60

gctctaagta gttgtattca acggttgggg aagatattca aggaactaag tgacgtgttt	120
ttacggttcg cacaaaattt gcccacaaca catgcttctt cgcaagcgtc tcgacagcaa	180
ccgtctaatag ttcgacaaga tgtttcttca caaccatctc tacagcaacc tccaacttct	240
aatgttccac aagatgcttc attgaaatcg cctcgacagc aacctccatc ttctaatagt	300
caacanaatg cttcttcgca accatctcta cagcagtcac cagcctcgat tgctcaacaa	360
gatggttctt ctcaagcgtc acgacagcaa c	391

```
<210>      1901
<211>      437
<212>      DNA
<213>      Cyanidium caldarium
```

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<223>      unsure at all n locations
<223>      Clone ID: LIB190-037-01-E1-C4
```

<400> 1901

gggccgagggc	gtgggcttat	tggaattgaa	aggaggggtcg	acgagctcag	cttgaagaac	60
aaagaacttg	cgtgggggttg	gacgttattt	atgaacttgg	actctattga	cacaggaatt	120
aatgctcctt	ttgacccggt	tgcagacgcc	tcacgtggag	aggacgcagc	agtaaccaaa	180
aatatagtgc	atattcgctt	gcaacaaaga	aacggccgca	agtgcttgac	gacgattcaa	240
aggcttgaca	canaattgga	tttgaataaa	attacaaagg	ccttcaaaaa	agagttttgt	300
ttcaacggtt	gtgtcgtaaa	cgacccaaaa	ctgggaagag	tcatccaact	gcaaagagac	360
caagaggata	nagtcaaaaa	gtttctagtt	caagagaaat	tagctganaa	agacctgata	420
aaggtgcacg	gtatatg					437

<210>	1902
<211>	250
<212>	DNA
<213>	Cyanidium caldarium

<223> Clone ID: LIB190-037-Q1-E1-C5

<400> 1902

aggttgacag ggaattgtgc gctcttcgtg ataataagcc ggaagaagc aaacgacaga 60
gaataagaag ttacatccat aacctcctta tcttcagggg agagtgtgaa cagtgggtca 120
tgagtttcaa ggtcaagatt acactatggg tatggaaata aaatcaggcg gtattaaaga 180

agttgaggag tatcccgtcc aagtaaattgg ttgactgaga cctgaggaaa cgttgatggt 240
 acatgacaga 250

<210> 1903
 <211> 408
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-037-Q1-E1-C6
 <400> 1903

agttgtgggtc atggcagatt tggtcgctgc acattacccg cgtaaagtct tgtgctatgc 60
 attccacttt cttctagtac caaaaacaac gagtttaaaa actcaagtct cgataaagcc 120
 ttctcatgta tgccttcgat acccaaaggt caactctttt caaaatctca agtttctggt 180
 gtgttctcca agagaaaacg ttcgcaaacc ttccacctgg cttattcata tgtccaacga 240
 tggctataaaa ggaaagccac tgctcgatac atcttttcag ttgtacaaaa aaatcgcaag 300
 ttctgcgact taatggtacc tccaaggaga tttggcggct tctcttcaaa caatatatcg 360
 gcgtgccttg tttcagggag ttagttcaca gagcatttcg tgggcgct 408

<210> 1904
 <211> 393
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-037-Q1-E1-C7
 <400> 1904

gtccagatgt ggtcatggca gatttggccg ctgcacatta cccgcgtaaa gtcttgtgct 60
 atgcattcca ctttcttcta gtaccaaata caacgagttt aaggactcaa gtcgcgataa 120
 agccttctca tgtatgcctt cgatacccat aggtcatctc ttttcaaaat ctcaagtttc 180
 tgggtgtgttc tccaagagaa aacgttcgca aaccttcac ctggcttatt catatgtcca 240
 acgatggcta taaaggaaag ccaactgctcg atacatcttt tcagttgtac aagcaaactcg 300
 caagttctgc gactttattg tatectctat ggacgttggc tgcttctcat ctagcaatat 360
 atcggcctgc cttgtttcaa tgagttagtt cac 393

<210> 1905
 <211> 339
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-037-Q1-E1-C9

<400> 1905

gcgtccatgg gaatccgcgc aacttggcgc catgttacgt tccaatccaa ctgcgttcct 60
 ggtatgggtg actgtagcta gttccgctgg ttatgtaaag ctgcacagag atgtaaaata 120
 tgcaggaaat atacttactt cgagtataca agagtgggcc gatgaggtaa cccaaactac 180
 caaagaactg gatagtaaag tccttttttt agaaaaggag ttgaaccgca ttagagaact 240
 ggcaaccgtc gaaaaggatc caagttctcc ttcgagtgga caaagtaatc aataacgcac 300
 cgctactagt ccttatttct gtcgagtatg ttgcctgggt 339

<210> 1906
 <211> 268
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-037-Q1-E1-D12

<400> 1906

catgggaata ttatttggca gtttggtgaa tgcattctgca acgaaccac ttttgatcca 60
 tcagttattt ggatacacga tattagggtt tgcgttaaca ccaggcagta cgactgtttg 120
 cattgatgat gagttttttg ctaccgtttt catactatat gacgaaacaa gacgtagaag 180
 ataaactttc agagacagtt agacgagtta tgagagaaaa gatggaacgt cctataactg 240
 gtaaattggac tactaatgaa tcatatga 268

<210> 1907
 <211> 403
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-037-Q1-E1-D6

<400> 1907

aaaagacccc ataattcttg actagatagg tttaggagg agagagaatc atgaagtaca 60
 ggaggtgggg taagagatga aagaccactg catgaggata atgaatctaa ctgagtaagg 120

aaaataagct taagctagtt tggctgggga agtaaagcct aagaaagagt aaattacgca 180
 agcaaaggca tgagagaagt ataatagcag aagcatgctt gaagaaaaag aaagagattt 240
 cagaaaggga agaaaagtca gctatagaga acagggtgaac gagaactcag aaagaggaga 300
 gcaccgaacg atcgaagaag aaactttggg ggtaacaggt taatgtggtg ttagagaacg 360
 tatcaagcac cacgattgac aactcgatgt cgggtcatca cat 403

<210> 1908
 <211> 434
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-037-Q1-E1-D8

<400> 1908

aagagagatg gggatatgct cagcaaacc aacaacagca acagtgccaa caagtatgta 60
 aacagtatgc atactatcag agtccagtct gcacttccgt aaccacacag agcccatact 120
 ggaccaatg ctcgaagact gtgcaaacct ttgtcccaag ccagtgcagt acttataccc 180
 aatctcctac atggacctat tgcagcacct acaccaccac tagcgtacca tctcaatgca 240
 gcaaggccgt gactacctat actcaaacct gctgtgctta tgcccaacaa acttcctatg 300
 cagtcagtac cgagcaatat gttcaggaaa ctgtatctgc tcaatatact tcttactacg 360
 gcgaatcatc ctccagctat tattaccgag cagctgctcc tcagagatgg tatgaggaaac 420
 aatgcaactc atac 434

<210> 1909
 <211> 197
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-037-Q1-E1-E11

<400> 1909

gtcgtgacat ttgccaagaa gggagattcg gatttgggag tacaagtaat tcctaactag 60
 ttttctttca gtgtggattg tgatatagtg catgatgttt ctgaaaaatg tcaagaggta 120
 tgaagataga aaaggcaatc atgggttaaaa gtaaagtgaac tcgggaggcg tttatcagga 180
 agcttgtcta gtcgaac 197

<210> 1910
 <211> 415
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-037-Q1-E1-E2

 <400> 1910

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ggtcagaatt acgggcgagc acgcgtccag gctaaaatgg tggaggagac agtctgatgg   60
aatatcgata acggaagaac agaacttctt tcatgggtgc tttctagaca cgcttctttc  120
atgtggacag gatagtgtgt ttatgctggc acgtctgttt cctttgggcg tcctttttgt  180
tacacgacac ttctcatctt gtagcacact ctactagatt tcctagaaat atataagaac  240
cagttcgagt tggtattatt tatagccctc gttatgttgg atgcaatact gttcgccaag  300
cctttattca atacaaagac tctcaatatt ctggattttc aagtgcattt ggctgattta  360
tagcatgcca ctttttaaac gcgggtagct catccaatgt cttggcaact ctcac      415
  
```

<210> 1911
 <211> 413
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-037-Q1-E1-E3

 <400> 1911

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gcgtccattg aaaatcatgg tagacactaa ccttaaggac ggtgctagtg ctgctctttg   60
gacttgccgc ctatttctct atacagttgt gttagcattt tcagcaacaa taattggact  120
tgatggaagg aacgcagata acatatggaa cgatgcccta tattatcatg gaaaagtggg  180
gaacttttgt gcatattcgg ctctgtctgt ttttgaaggg ggcgaccatg gcgcatgtaa  240
atatgtgatg gctttggctt ctatcagctt gattttagtt ttctttcttt ggttggcctc  300
ctttgtcgac gcattgtatc caattcttac aaagttccgg gtttgtggag tttggtatca  360
acatattccc ttactatgtg gtggttggtt ggtgcaattg tggtgactgc aaa      413
  
```

<210> 1912
 <211> 396
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-037-Q1-E1-E4

<400> 1912

gggccgagcc acgcgtccac ccaaacgtcc gcaactggtag atcatctttg agagagaatg 60
tcctttcctt tcgtttccac atagaaaagt cacggaaaaa ctttttgaag cagacctgcc 120
gaattttcca agagcactag tctatggtga gacaagttaa gcctcctttg tggcgctcctt 180
gctatcgatg atgagttgct ttgacctgca actttcgctt gcctcaaaac gcgagacaga 240
gcgacctttt ggtccagaac aggaaacgac agtcattcct tatgaaatat gcttcaaata 300
tgcgtaaga cactctgtaa cttggcgact cgtctaggcc cactgtatgt tgccacaaga 360
gtgttttacg agatgaatgg gaacttgctt tattca 396

<210> 1913

<211> 394

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-037-Q1-E1-E5

<400> 1913

acggacgcgt gggcggacgc gtgggaggac gcgtggggca gaagccatct tgcaattgta 60
tatgatgacg tatcgaagcc tgaaggagaa cgcaagttaa tgggtatcgt tactttggaa 120
gacatcattg aagaaattct tcaggaaatt gttgatgaga ccgatgttta tatggacatg 180
aagacaaaga aacctgttct ctttcggggg ccagatggtc gcctacatcg cagagctttt 240
atcggaccga aaaagccaca tactcaaata acaattagag agattgacat tggaacttta 300
aagcatagtt cgagcgaccc aaatctatcc gttaggagaa aaaaggcggg agaaaacttc 360
aataagcaag tgatgcgcgg cgatatcgat gaat 394

<210> 1914

<211> 420

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-037-Q1-E1-E8

<400> 1914

acaagtatac gctttggttt aggtcgattt acaactgaaa aggaagtgga ctttactggt 60
gagttggcaa agagacatgt tgcacgttta cgagaaatga gtcctttatg ggaaatggta 120
caagaaggaa tagacttgaa gagcattcag tggacacaag agcattgaat gggaaagcgag 180
atgacaagtt ctatcagaag cagcagcagc agcagatgtg gttttgcctt ctattcttgt 240
aggtatggca agaataaact gcaacagaca cttgtttgtt gttacaaaag caacttgcaa 300
tcatcaaaaa aaaaaacaaa aaataaaata aaaaataaaa aaacaatcaa aaaaaataaa 360
aaactaatat tcatcaaaaa ctatataana taactaatat aaaaaaaaag ggggggcccc 420

<210> 1915
<211> 434
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-037-Q1-E1-E9
<400> 1915

acgcgtccac ccacgcgtcc gccacgcgt ccgccacgc gtccggacaa gtggttgctg 60
gaattcgcaa ctacttttcc aaggatgaat tgttgaatcg gacggttatc gttgcgtgta 120
atttgcaacc ggtggttttg gcaggtgtcg aaagtcaggg aatgatattg accgctgaaa 180
agaaaggcaa ggtgcatctt ttatcctgtg aaaagtggga tgaagagaag aagaaactag 240
aagaggctcc tgcactaggt acgttggtgg aaatagatgg cggcgatgta tccaaagcat 300
cgtttccgat attggatagg aaaggtttcc aagacgcgag taaatggttg aaaattgacg 360
gacaaggaca tgtagtatcc cataagaagc acaagttgat ggccaaaaat tgcgtagtcc 420
acggcaacgg tgcc 434

<210> 1916
<211> 349
<212> DNA
<213> Cyanidium caldarium
<223> unsure at all n locations
<223> Clone ID: LIB190-037-Q1-E1-F10
<400> 1916

cgtccacgag aaaaggaagt agaaagaaga gagtgtaagg cggcgtcata atagaaatcc 60
gaaaggagta, gaagaaaaga gagagaagaa agaaaagaag agaaaagccg tactgaagac 120

cgacacaggt actcgaggag aaaggagacc caaattaagg tgagagaatg gacgataagg 180
aactaggcaa aaggatatgg tatctgcggt agaacatatg aaagaagcag caccgactgt 240
ttagcanaaa cacagcactc tgcagaaaag agaaaatgta agtatagag tgtgcggcct 300
gccaaatagt agagaagaaa tcgatganag tgaaagcgag taaaagatg 349

<210> 1917
<211> 326
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-037-Q1-E1-F11
<400> 1917

gcgtccagaa taattcggca gaggcgctct tcggcgtaga acctaacaag gaagaactga 60
aaaaagtatt gcaagtaaac gcaataactt aagcaacata ttttgctatt attcgtgcta 120
aaccttttgt tatcgatgta gtaaaggcta tttccagaa agagtagaag gcttgagttt 180
tggttttgtt ggcttgtatt ctggaatgt taccaactga agaatcattt ggaggctaaa 240
tatgttgtga gtgttttctg gtgtcctttg tgttgacagt ttgttttttt tgaaaaacta 300
aaaatatgat acaaagtgca ccaaca 326

<210> 1918
<211> 424
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-037-Q1-E1-F4
<400> 1918

gcgtccacga gagacgagaa ctccagaaat tggagacaag ttttcatctc gacatggaca 60
aaaaggagtt tgtggtttga ttgttcctca agaagatatg ccattcaatg aacaaggaat 120
atgtccagat attattatga atcctcatgg atttccttct agaatgactg taggcaaact 180
attggaattg atggctgcca aatctggagt attgagtgga gaattaaagg atggtacagc 240
ctttggtggc gatcctctgg aagactgtgc atctatgctc gttcaacatg gcttttctta 300
tacaggaaaa gatattttat attcaggaat gacaggagag ccattacaag cttatgttat 360
tatgggtccc atttattatc agaaactaaa gcatatggta aaagataaaa tgcacgccag 420

<210> 1919
<211> 427
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-037-Q1-E1-F5

<400> 1919

agagagttcc agttggatgt ttaaagaaaa gggacaccgg aaaatcagaa acaagttctg 60
taggcgaaac agaagttgtc tcatccaacg acagagaagt tttgcctcaa agcaccgtgt 120
tacaaagaga gagcggagcg gtgcaaaggc aaaaaatcaa aaacaaacaa aacagcccca 180
gcgtcacata cgacacatcc tcagacaccg aaattcttaa ctgaggaacg agcacttctg 240
tatcgagaac gacttgataa gctccgagaa caatccaaac cgttcatcga acctaaaact 300
ccgaaaaaat atgggcttgc ttggaaaccg ataccaactc aggctacaac accacacttc 360
cgttcagact ccaggctccg tcaactgtgta gaaaaggcga tccttgaacg taacaaacag 420
agtttttg 427

<210> 1920
<211> 356
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-037-Q1-E1-F7

<400> 1920

acttgcaact cataaaggca ctcgaaagct tgtcccttcc tgtgaaacaa atattattac 60
agtctgaaaa caaggaagaa cagcttgaat cagaagatga actagcagaa cgtttggaat 120
ggttattctt agatagttag atagctgata tgctaaggca cctgatacag agagtccatg 180
ataacaaaat agtacctcta cgatataagc actctactag aaagaagtcg gatgaaaaat 240
caagtggat ttgctccagt ggaaaggaag atttatcaag tcaaacgaag caagtcgaaa 300
agagacaaac tctattgctt ctatttcaag aacgagtaca acaacttgag aagaag 356

<210> 1921
<211> 337

<212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-037-Q1-E1-G1
 <400> 1921
 gcgtccacgg acacgtgggc ggacgcgtgg gatctacgtt tcttttccaa ccagcatatt 60
 caataggagc ttcttttttt ggatcgaaga aataagagga ctgttggaac acctcttata 120
 tggtagcttt ctccaacttg atgaaacttc caagcatcaa tggcagctaa cagcatattg 180
 gtattgtttt caaaaaactt tgccgtctgg atatagtcag gagcaaactg ttgacaatga 240
 ggacaccaag gagcatagaa tttaactagt acatccttgt cggatttcat gataaaagaa 300
 gtaaaattgg aagaaaaaaa aaaaaaggac ccgcccgc 337

<210> 1922
 <211> 355
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-037-Q1-E1-G10
 <400> 1922
 cgtccaaact aaattgacat gcaacanagt aaccttcgag tagtccaatc ttctttggtg 60
 gcaagctttg tcctcattct aagtataatc tgtgccattc atgcagtaac agccgatgaa 120
 ataacaagtt tcgagagagg ataccaaaca gttgcaccaa ctcagacgca gcaatgtcaa 180
 aagatttggtg tcaccgccac acaaactcaa gttcaaagtt gtatttatac tcagacacag 240
 gctccgttca tgtctcaatg tgtcacagca ttgccaaacta cctgctataa atacgtaaca 300
 caatataagc acgtgtgctg tgagcaagaa tacgagcaac agaattatca acagc 355

<210> 1923
 <211> 335
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-037-Q1-E1-G4
 <400> 1923
 aatggttaat ttaaaaggac tccaaggaaa ttggttcgga ggaacgggtca aatagaaccc 60

gcaatttaac ctatcgatat aaggcagttt tgcaagaaaa tttggccgat cagtttcaaa 120
 gtttttccaa gtttaatgaa gattatgttg cgcgccaatt gaaagaaagg gaatgtagtt 180
 atttgcata atgatataaa cgttggaaat ttgtaaaaaa acaccacatc tttacctgaa 240
 aacctgcata attggaattt gaaggcacgt tgtagcagcg aataatagtt gcgatagaga 300
 gattgaaaag aggttttaag taaaaaaaaag ggggg 335

<210> 1924
 <211> 398
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-037-Q1-E1-G7
 <400> 1924

accacgcgt ccgcccacgc gtccgaggac gcgtgggatt ctttgtgctt ggacaatgg 60
 tgcaaagact gctctgagtt gcctctttct ctctttcctt atcgtgccg cagttgcagc 120
 cgacgtagtt tcagaggaga gatggggata tgctcagcaa acccaacaac agcaacagt 180
 ccaacaagta tgtaaacagt atgcatacta tcagagtcca gtctgcactt ccgtaaccac 240
 acagagccca tactggaccc aatgctcgaa gactgtgcaa acctttgtcc caagccagt 300
 cagtacttat acccaatctc ctacatggac ctattgcagc acctacacca ccactagcgt 360
 accatctcaa tgcagcaagg ccgtgactac ctatactc 398

<210> 1925
 <211> 395
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-037-Q1-E1-H10
 <400> 1925

ttagtaacgt tatctcctgc agctgaccgt atagttggcc taggaaacaa gaaagcttta 60
 tgtttgcaaa gtaaaaaataa tagaacaagt ttaaaaaggc caatttcgtc ttctagtcaa 120
 cttttgcgaa tgactggagc tacttctctt gcttccgatg acagtgttcc agatatggga 180
 aagagaatgt tcttaaaacta tgtcttgctt ggtggtgctt ccattccaat cttatctatg 240
 ttgggtggtt atgcatactt tttctatcca cctctcgtg gtggttcggg tacaggtact 300

gttgcgagag acgtgttcgg acgagaaata aagaaaaagg aatttttggg aacgaagaaa 360
ccaggcacgc atgagttggt acaaggacct aaagg 395

<210> 1926
<211> 343
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-037-Q1-E1-H12

<400> 1926

cgtccagtgg gcggactctt gggcggactc gtgggctttc gttgaaatta gaagtactcc 60
tgcaagtata caaatgctac acggaagtgg acgggagcct ggtaactttg acgttgctcc 120
tttgggcttg ggaaataacc cgcaactcta caagcgattt caattgtccg agttgtcgaa 180
cggtcgattg gcaatgatata ctcgtggagg actcaatcac cagtcatttc ttactcatat 240
aggtgctatt caacagttgc atcatcatat atggtttcca gaaaatcgtg gtttgtgaca 300
aggaatagtt gtggatgtgg gacactagaa gaatattttt ggc 343

<210> 1927
<211> 433
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-037-Q1-E1-H2

<400> 1927

gcgtccacgg aaacgtgggc ggacgcgtgg gcggacgcgt ggggttatta gcaccattta 60
cggtaattgg attggctatt gcaggcgcgt ccacctatgt caaacacaag acaggacaag 120
ttgtagctta cacgatagga atggttatct atgatctgtt ttggggaagt gcttttaggtg 180
cagtgcctat tgcagtcaat tctgaagtct atccacaata tttgcgctcc aacggtatga 240
gcattgcggt gatagccact tttgttgaa cctttacgac gacatatata ttttcgagaa 300
tggtgcattc tatgacaaag ttgggtacct tgcttggttt ctatggtgga gttacttttc 360
ttggttgggc tccaggtatt ttctttatgc cagatacana ggatcttact ttggaacana 420
tcagacaagt ctt 433

<210> 1928
 <211> 313
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-037-Q1-E1-H6

<400> 1928

accacacgt ccagatagag atgtggataa tgtggggaat aatgagtgtg agtaaggaga 60
 taggagtaat gatgagtata agtatgatat taacggtagt gtatacgata tggatgtata 120
 accgagtata taagggaata aggaaggagt atataaagaa ggagatggac ataagtagga 180
 gggagtataa cagtataagt ccgttagtgg taataatgat aataatggga gtgaagccaa 240
 gtatatggag tgaagtatgg taagtgtgta cataataggg atgagcctag taatgatgaa 300
 aggccaatca aag 313

<210> 1929
 <211> 426
 <212> DNA
 <213> Cyanidium caldarium

<223> unsure at all n locations
 <223> Clone ID: LIB190-037-Q1-E1-H7

<400> 1929

agaataagtt ttggcgccaa cctggacttt aaatatgcgg caaaacttgt ccggtggtgct 60
 tatatggtgt ttgaacgtcg agtggcagct gagaaagggt atgcttcacc agtttttgac 120
 cgtatagagg agacacacaa gtgttataat aatattgcag ctagaatgat caaccagggt 180
 agtcacaaca gtgcctccgt aatgtttgca acgcacaact tggattctat ggagagagca 240
 gctactgaaa tggctgaaaa acagctgcac gctagcaatc ctaacgttta tttcgctcaa 300
 ttgtatggaa tgggagattc tatgacaatg gccttagcga aggaaggtta taacacttgc 360
 aaatacgttc caattcggac tgtacaggaa gtgatgcctt atttaactcg tcgtattgaa 420
 gaaaat 426

<210> 1930
 <211> 403
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-037-Q1-E1-H8

<400> 1930

acacgtcaac gtatagctgc tgttttcatt gcagctttgt cccaaagttt accaagtcaa 60
aacggcttca ggttgataga tccactaggc attctacttt acttgtagct tctacccaaa 120
ctgcttctaa tccaatgacg aaagtgccga gaaaccctaa tttggcaaag ttggaagcag 180
gttatttggt cctgaaata gccagaagaa gaagtgttta tttggaaagt catcctgatg 240
cgaatatcat cagtcttggc attggcgaca caacgcagcc tattcctgcc cacgtcgcgc 300
aaaagatggc tgagaaaagct cttgcccttg cgaccctga agggatttca ggatatggac 360
ctgatttaag ggaagcagaa cttcgcaaaa aaatatctca acg 403

<210> 1931

<211> 379

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-038-Q1-E1-A1

<400> 1931

gaagaagcct tccgcggcgc gtgggtcggt ccgggttgtc ggggacgcgt cccgtttggt 60
tttgtgtggt atttgaatgg cgaccaagag aataaccaa gatttgcaag acttgggtag 120
agacccccct tctaactgta gtgcggggcc cgtacgggac gacctcttc actggcaagc 180
tactatcatg ggccctcctg actcgccata tgctggtgga gtgtttttcc tcaatatcca 240
ttttccaacc gactatccgt ttataccttt ttttgtgcaa tttaccactc gtatatatca 300
cccgaatatt aactccaatg gaagtatctg cttggatatt cttcgcgacc aatggagtcc 360
agcactgact atctctaaa 379

<210> 1932

<211> 403

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-038-Q1-E1-A10

<400> 1932

gtccgaaaga aaaaaatttc tctgaatagt cttcattcca tgtttcaaca aatacatact 60

gaagttgcta ggtttaccca aaataagtac caagtcactc atttggcaaa cgatgtatta 120
 ttgaactacg gactatcgtc ttatgatgga aagaatgaaa atactcaagt agagcctggt 180
 atggataccc attcagttac tctcaaagcc ctgcgcaaat tgcaagataa ggtttatact 240
 ttgcaagatg cgttggcaca atcccaagaa gaagcaaagc gttataaaaa gtctctatct 300
 gctttaagag aagaacatga aatgactatt caaaggtatg gcaaagagtt tcagttgctt 360
 tttcaagaat tgcacgatt aagacataac aacaagaaga aac 403

<210> 1933
 <211> 413
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-038-Q1-E1-A3
 <400> 1933

gtcgtttcca atagagaccc gttgcaactt ccttggaag acttgaacat cgatctggtg 60
 atagaagcaa ccggtgtttt tgtggattcc aaaggggcac ggaaacacat acaagcagga 120
 gccagaaaag tactgataac tgcacctgga aaaggagatg acgtgggaac tttcgtcatc 180
 ggagtaaagt aacacagcta tgatcatcaa gtacacaaca tcgtgtctaa tgcaccttgt 240
 acgaccaact gcttggtccc atttattaaa gtattgcacg aagaatttgg tattatcaaa 300
 ggtacaatga caacgacaca ttcgtacact ggtgaccaac gattgttga tgcagcacat 360
 agagacctta gaagaacaag ttctgtgca ttaaataacg ttcctactac tac 413

<210> 1934
 <211> 239
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-038-Q1-E1-A6
 <400> 1934

aacttgatt agtagtcac aacgtattag gtgcagaagg tgcacttga attatggctg 60
 cgaatcatga ctacgaagac tatgtcgaca ttccttgaat gttctctaca caacaataac 120
 aacggctcct gaataaaaca actcgttggt ttttattcac aacaaaaaaaa ctcaaataaa 180
 aaaagaaaa agaaaaaat caagaacaaa tcaaaactgg aaaagtcaaa aatttttct 239

<210> 1935
 <211> 333
 <212> DNA
 <213> Cyanidium caldarium

 <223> unsure at all n locations
 <223> Clone ID: LIB190-038-Q1-E1-A8

<400> 1935

 acggacgcgt ggggtgcaatt ggtgaacaat agtaagagag agagaattgg ctctcgttct 60
 tgtgacatat atatatatct atatatacaa atatacatta agccttagat atttacatct 120
 atagtataaa atggtatttc ggagggttgt agagattgga agagtcgtcc tgggtgaacta 180
 tggcaaagac cgaggcaaac tgggagtcac tgtggatgta gtagatcata atagggcggt 240
 ggtagatggc ccactcacgg gacttgcgag ancaaacatc aactggaaga gcttaacggt 300
 gaccccggtc aaagtanaga ttcaacactc cag 333

<210> 1936
 <211> 287
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-038-Q1-E1-A9

<400> 1936

 acgcgtccga ttgttttctt ggtagcagtt gtacattcaa catcatcaaa atgcaaaagg 60
 aggaaagaaa agatcttcaa aagaaagaag cacaagtaaa cctgcagcag cagatgctac 120
 aaagacgaca gaaaagtctg gtccggaagc caagttgaag ggaactggtg caaagaaaca 180
 ataaaaagtt gactatgcat gtgcagtcct gttatgtttt gtgagttctg tttgatagtt 240
 tccagctatt cttttggtag tgaataaaga gaaaattttt tatattt 287

<210> 1937
 <211> 419
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-038-Q1-E1-B10

<400> 1937

 ccgacccgtc cgaggacgca tgggaggacg cgtgggaggc cgcgtgggct ccacaggcca 60

tcataaaata tgtcaaggct cacaatccgc agcttccgga agacaaactt aaacttcaag 120
 taaagtttagc tttgcgctgt ttgttaaagc agaagcttat tgagaagggtg aaagcttcgt 180
 ataagattgc tagcaagagt agtagagtta agaaagcccc aaaagaaaca aaagcgaagc 240
 gagttgcgaa aacgggttcaa aagaaacgag cgaacgattt gcaagagaaa actacgaaag 300
 ctaaaaacgg taatgtgaga aaagaaaagc agaaagctcc agaaccccc aaggctcccc 360
 ttaagagtga gaccacggag accaaatcct tgaggcacgg tactagtga gattcaaag 419

<210> 1938
 <211> 389
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-038-Q1-E1-B11
 <400> 1938

gtccgaaaga attataagcg gtgcaggatt agaagagacg acccgaatca agttcaactg 60
 tacttgctgt tgtgtattca atggaataag taataagtggt tgattggcct tgtaactttg 120
 ttgaggtatg taaacaaccc ttgatgtccg tcaagagggt gatgaaaaaa atcatgcgcg 180
 tcgacagaag tggtagcatc tgcgtgtttt ggtaccgcat atgaagatgc cttgctaagc 240
 tgactctttc atcgtgctag agttgtgcta taacttttta aaacttggtt taaccgttgt 300
 tgagactaag tttgttggtt atttgggttt tatatatata tatatatata tatatatata 360
 tatatagaga gagagagaga gagagagag 389

<210> 1939
 <211> 382
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-038-Q1-E1-B12
 <400> 1939

gtccgagact acagaccatc caactagtgc aaatgatgac actcagaatg ataatacgat 60
 ggaaactttg gaaggagttg aaaaggagga gccgagaaag acaggagcgg aatggcgagt 120
 agatgaacct gccaatgcaa ttttgcgtag aaattatgat catccgaaag gaacagtttc 180

tgtggatagc gagtcacttc gagaagagag aattgccgag tggttggaag agaataccaa 240
 atatgagggt caaggctggt atcggtgttc tcttcctcct tttaagctat ttcaaggcaa 300
 agaatatggt cacaacatt tgaaaaccaa acatacggaa gaaatgcana aagtgataga 360
 gaaagcagac aaggaacaat tt 382

<210> 1940
 <211> 321
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-038-Q1-E1-B2
 <400> 1940

agttccaaag gaacaagggt ttatctcttt ctggagaggg aacatggcaa acgtcatccg 60
 ttactttcct acgcaggccc ttaactttgc tttcaaggac aagtacaagg ccatattctt 120
 ggagggaggt gacaagaata agcagttttg gaggtatttc gttggcaatc ttgctgcagg 180
 ggggtgcagct ggtgggactt ccttatttgt agtgtatcct ctggactttg cccgtactcg 240
 acttgccgca gatattggga gaggcgaagg tcgtctctac actggcttaa ttgattgttg 300
 tatcaaaacc gcgaaatctg a 321

<210> 1941
 <211> 357
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-038-Q1-E1-B4
 <400> 1941

accacacgtc cgcttccgac gaagagggtta tttggatatt tggctatggg tctcttatat 60
 ggaaagccga atttccttat gtacggacag tgaaagggtg cgtgaaaggc tgggtgtagaa 120
 ggttttggca aggttcgata gaccatcgag gaactcaaga tgctccagga agagttgtta 180
 ccttggtccc tgctgagaag attcgagcaa tgggacaagc ataccgaac gagtcttttg 240
 ttacttgggg tgtaggctac caaattgagc aagcacaagt tgaaaaagtt ttgcagtact 300
 tggactatag agaaaagaat ggttattcaa aaattccggt tgctaaatat gaacaac 357

<210> 1942

<211> 464
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-038-Q1-E1-B6

<400> 1942

ggatataggtc tagaagtccg ggtcgacca caagtccacc cacgcgtccg gtaagaacaa 60
 ggaaccttaa ctgaaagctt gaaaacgatt gtactgtaga gctgttctat tcatgggtgt 120
 atttcacctt ctaattgtgt atatctcaa agatgggagc aaagtctaga cttttgaaac 180
 gaaatcaatt gttcataatt ttgcatactt gttcaaagca ttgcaacatt aggagaactt 240
 catttgggtca tggtcacgat gatattgctc actagacaag gaaatacatc acatcgacg 300
 aattgaccac atgacattgt cgctactgtt gtatagggtg agttatgtgg aatattttga 360
 ctttgttatt ttgttgacg caactggctg tcgctctttt ctttatgtac atatacaagc 420
 attctcagac tgcctgaaaa agtttttact cgtcatgggt ccct 464

<210> 1943
 <211> 296
 <212> DNA
 <213> Cyanidium caldarium

<223> unsure at all n locations
 <223> Clone ID: LIB190-038-Q1-E1-B9

<400> 1943

gagacattcc tcttcatcat agacatttcg aatgcctcca aagctatata agtagcgtat 60
 gcaagaaaga aaaaggtaaa ggaagaaagg aaaacagaga tggactatga gcgagaagg 120
 ggatagtcga gaaggaaaaa gccagaagc caagataagg tatcaaagta aagaaagaag 180
 gaaaaggaga agaagagaag gtaggcttan aagcagcana ccagagaaga aagcgtaaa 240
 gcatgaaaga aaagaaatcc gaaaaagaag agaaaaaggt aagaaagagg accgaa 296

<210> 1944
 <211> 399
 <212> DNA
 <213> Cyanidium caldarium

<223> unsure at all n locations
 <223> Clone ID: LIB190-038-Q1-E1-C10

<400> 1944

tccgatgtga aactgcagta aactagcagt aggacggaaa gaccccataa ttcttgacta 60
gataggttta gggaggagag agaatcatga agtagaggag gtggggtaag agatgaaaga 120
ccactgcatg aggataagga atctaactga gtaaggaaaa taagcttaag ctagtttggc 180
tggggaagta aagcctaaga aagagtaaata taggcaagca aaggcatgag agaagtataa 240
tagcagaagc atgcttgaag aaaaagaaag agatttcaga aagggaagaa aagtcagcta 300
tagagaacag gtgaaggaga actcgaaaag aagagaaaag ccgtactgaa gaccgacaca 360
ggtactcgan gagaaaggag acccaaatta aggtgagag 399

<210> 1945

<211> 348

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-038-Q1-E1-C11

<400> 1945

ggaatgtttg gcatgcaaca cgcccggtga cattcaacat catcaaatgc caaagggagg 60
aaagaaagat tcttcaaaga aagaagccac aagtaaact gcagcagcag atgctacaaa 120
gacgacagaa aagtctggtc cggaagccaa gttgaaggga actggtgcaa agaaacaata 180
aaaagttgac tatgcatgtg cagtcctgtt atgttttgtg agttctgttt gatagtttcc 240
agctattctt ttggtagtga ataaagagaa aattttttat atttaaaaaa aaaaaaaaaa 300
aagaaaaaaaa aaaaaaaaaa aaagaaacaa taaagagaaa agagggaa 348

<210> 1946

<211> 285

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-038-Q1-E1-C12

<400> 1946

gtccgattct tcagccaac agagttcgat tggaacaaga ggactaggta atgagttttc 60
gcaagttacc gtgcagaaag tcncaagtca tatttcacgc tctaatagaa attgtatgga 120
aaagtttcga ttttcgggac gtgaatagaa gaaaatgagg caagaaagga gatagaatag 180

caagcgttat gtatagaatg caattttgca ttgagcgagc aagctttcaa cccttcttag 240
cctcncgagt actttttaat tcataaatat ttaatttttt tccac 285

<210> 1947
<211> 432
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-038-Q1-E1-C3

<400> 1947

ggtcgagcac gcgtccaggc agagaggcat gggatttgca gagttcgaac gctcttatga 60
gaagtataca ggaggtgatc catcgagaat gaaagtgtcc gtggagaaac tagacgaaga 120
gccacacgac gatcatagag gttccacttc ataaaagaga ctattgtgca catttgtata 180
ttcctttgcg ccgttgtttg agagacaact attttttgcc gtggtcttgt gaggaagaga 240
aggaggcgta taaccggtgc caaagaaaag agagaagaag aagagaacga ctctataaga 300
aaatcaagga agaggcctcc aaagtatcgg cgacggaaga acaagatgaa taatatcgtg 360
ttggtgcgtc gtctttgtgt tggaacaata ataactctc aaatagtaaa caacttgatt 420
tgattttcaa gt 432

<210> 1948
<211> 340
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-038-Q1-E1-C9

<400> 1948

tccaaacatc cgagccacgc atccggtaca atgtaaaaat gcacatacgg gaaagcatca 60
taaaaaaaaa aaaaaaggaa aaaactgaag tatcaggaaa aaaagaggga gtagatgagg 120
aaagaaagat caacgaagta agagtaagag aacgagtaat gtgaatgaaa gcacgaaagt 180
atttgaagaa gagagtgtaa agcgcgtacc ttttgcataa tgtcccagcg agtgaaagag 240
gaagcaaaaa gaaagaaaaa gaagtagcca ggtaagaccc gaagctagtt gatcttatgc 300
tgtccaagcg aagtaaggct gaaccagtat ctgtggaaaa 340

<210> 1949
 <211> 419
 <212> DNA
 <213> Cyanidium caldarium

<223> unsure at all n locations
 <223> Clone ID: LIB190-038-Q1-E1-D10

<400> 1949

cgtccgatct ttgagtanga tactatatat gcttgtggaa gaatctagag caaagtggca 60
 ttggaaacct agaggaggaa gtagcagcgt tcattctgtg tcatttcaca aatagcaggt 120
 cttcaatttt ttaaacacat ccctactatt aggaacgaaa tgaacgcgtg gaactttctg 180
 aaggaaaactc gagaaggact acaactgttg tccaagtcac tcagtggcac acgtgaaata 240
 gtaaagtttc gatgcgaatg aaaataggtt ctagttctcg atgtggagca aatgcctcgt 300
 tctataccag aaaacatgga tatctctaga gtctgaaagg gattatctgg tgtccaggag 360
 gcggttttca acgaggtgta cattccacag tcctcgctcg cttctagaaa cgagcaatc 419

<210> 1950
 <211> 362
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-038-Q1-E1-D11

<400> 1950

acatccgaat ggtgttacca aatgtaaaac ttgcaacggc caaggagttc gagtacagat 60
 aagacagatt ggaccgggaa tgggtgcagca aatgcagtct gtgtgtcctg actgtagtgg 120
 aagtggagaa tctatcaagg agaaagataa atgtaccaag tgtaagggtc aaaaagttgt 180
 gaaagaaaga aaggtattgg aagtttatgt ggagcctgga acagagcacg gccaaaagtt 240
 ggtattttct ggggaagcag atgaggagcc aggaacgggt cctggagatg tgattgtagt 300
 aattcagcag aaagaacatg agatattcaa gcgaaaagga agtaatttaa tcatggaaaa 360
 ag 362

<210> 1951
 <211> 370
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-038-Q1-E1-D12

<400> 1951

caacgataat cgaggagcag catacagacc gagaaaatgg ccaatacaag gaacacttgg 60
aatatgtggt tacctcaagg tggactcaaa acaagttgca agatagtga ccttgagttg 120
tgcgggaaaa cccatgggta gacagtagaa caagtatgta tcttgcttca tatatcgtaa 180
caggacggtg gaatgtgggt tgggtgtctcg tccaacaaga ggcacttggc aacaagaatt 240
ggggtacttg cagtagaaaa ggtccccttg gaagaaaact agatagtaga ttttataaat 300
aatctcattc ccattggaaa aaaatgttgt gatacacaag ttgtaaaagt aaaacgttta 360
cttgagatac 370

<210> 1952

<211> 407

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-038-Q1-E1-D4

<400> 1952

cgggtcgagc acgcgtccaa gagaatcgtc atgcttcgga tctcaacgag gatacttgtc 60
actacagaac ggatagtaga gtaccggaaa atgtcatagt tcgaaaagat acaaacgtgt 120
cttttttggg tttgtgtctt tttgcctttg atcttttgat tagtcgtctt agacactttt 180
cggagccttc ttgtccagct tccataccag acacggatga ctatgcactt tttgtgacgt 240
ggaataagaa aggtagagaa ggtgagcgtg cacagttgcg aggttgtata ngaacgcttt 300
cacctttgaa ccttcgaaaa gggatacata cttatactct agcaaggtaa gtgactccga 360
actgaaacta tgaaagggag ctcaaaagct gcaagtgctt tcagaga 407

<210> 1953

<211> 432

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-038-Q1-E1-D7

<400> 1953

acgttcgggt acatcgctgt cgatcatgcag ccatatttgg cactatcatc gcaattcttt 60

gtcaattctc tggaatcaat tctatcaatt attatatggc aactctgatg catgaagttg 120
gatttagtcg agtgcacgca gtatattcaa gtatgattgg tagtggaact ttattgttgt 180
ttaccattcc tgccatttac ttgatggaca gaatgggaag aagagtgctg tggttaagtt 240
tattaccagg agtgctcggt ggatgtttca ttataggctt tagtttccga gctagcaaca 300
tccatgtcga agaaggaatt tacatttggg gtatcataac atattatatg ttttgggggt 360
ctggtatggg accttatgct tgggtactgg gatcggaat atatccaact tatattcgaa 420
gtgaaggaat gg 432

<210> 1954
<211> 433
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-038-Q1-E1-D8

<400> 1954

cccacgcgtc cgaaggcata tgggtgcgggc ttgctgtcat cttttggcga attgcaatat 60
gcgttgagta aggaacctca gttgttacca tgggatccct ttgtcgcatc caaacaaccc 120
tatectatca cccaatatca gccagtgtat tttgttgccg atagtttttc ttccgcaacg 180
gacaagtttc tcaagtttgc ggaaacgata gccagaccgt tttccgtttg gtacaatcct 240
tactgccaaa ccatcgaaat tattgactcg ttggaaaaga ttatgaaaat agctggacat 300
accaaacaat cgtgttcggt ggtgacggaa gctttgagaa gattggtgga aagttaaagg 360
taacgtatta gattaagcaa aaatagaaag gatttggtgg ttgtgagtgt tcatgcatga 420
tggtttgtga tgt 433

<210> 1955
<211> 336
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-038-Q1-E1-D9

<400> 1955

tgcaggcgcg tgggctgacg cgtgggggaa attgcatgaa gatgaacaag atatgggttg 60
gttggtggtt gaccttgtgt gttgttgtcc tggtgcaagc aagtagcagt tgttcttcca 120

caaggttcga ctctgctaatt ttgccttgtc aactttgtgc ggcaatacac cacatacaaa 180
tagctactga ttgccgaagt aaatggacta accctgtgac tggtcataat cggagtaaac 240
acttgcaaga ttgttggttca gagagtctat gtgatgtaca agatataaaa tatgtgaaga 300
ttaaattggt ggctccaccc aaacagttcc ttttgt 336

<210> 1956
<211> 385
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-038-Q1-E1-E12

<400> 1956

tccaagcgtc caggattgga tcccctgagc cgccgcttgg ggtccgtag ttgcagattt 60
gggtcaaaat ataaatcaac ttgtgataaa tgtttttgga aattatgtcg ttcaaaaatt 120
gttggaatat ggtgatgaga atattcgta attgttgaca aagaagttgg aaggacacat 180
gctttcattg agtttgcaca tgtatggctg tcgagtagtt caaaaagcct tggaagtatt 240
gaaaggggaag gaacgaacca tgttggtgca agaattgaat ggacatgtgc ttcaatgtat 300
tcgtgatcag aacgggaatc atgtgattca aaagtgtatt gaattggttg aaccagagag 360
cattttattt atcgtcgaat ccgtc 385

<210> 1957
<211> 425
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-038-Q1-E1-E6

<400> 1957

acccacgcgt ccgcccacgc gtccgacaga aacagccaaa atatttgctg gtgtggatgt 60
tacgaaagaa cctattcctg ttcttctac agtacattat aatatgggag gtataccaac 120
caactggaaa ggacaagttg tgacgttaaa agatggaaat ccaaatagtg ttgttcccgg 180
tttatatgcc gctggagaag ctgcttggtc ttcggttcac ggtgcaaata gattaggagc 240
taattctttg ctggatattg ttgtctttgg aagagcctgt gctcgaaacag ttgcagaatt 300

atataagcct gaacaaaaac aacctccttt accggcagat gctggagaag aatctatagc 360
tagattggac anatatcgac atgcaaattg aagccttana acaagttgaa atcgtctgca 420
catgc 425

<210> 1958
<211> 412
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-038-Q1-E1-E7

<400> 1958

atgaaaaaga aaagttgttt gaggaccaa cagagtgaca agaagagatg gcaaggagaa 60
tattgggtgc ttatatggga gatgccacag tggcaactct gttcagtatc aaaatattgt 120
tctatcttac tatcatgggt ttctccataa ctatcttggc tctcatggga aagaactcgg 180
atgggtatttg gatacatagt gtgccacctg cagatcaata ttgtgcatac aagtcttcat 240
tgagggtgaa ccaccatgga attgcttctt attgcaagta tatcgttgcc gtagctgcta 300
ttgggttggt tatctcgttt ttccagtttt gctacggctt gttgggtatc tttttcaagt 360
ggcaacaaaa gttgtggtat attgaagatg ctttcaatct atttttctgg gc 412

<210> 1959
<211> 289
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-038-Q1-E1-E8

<400> 1959

aatgcattca acatattact cactttgatg ttcgttcgac gagatgaaag attagtacaa 60
gcaacagtat ttccggtatt tgtttttctc tcaaacgcga agagtttctt ggttcctcaa 120
atgattcttt aatgacctgt taacgactaa atgatttttc acgaggttgc aaatataatg 180
gtcatcataa tcaatccagt ctgctatata ggacctttta ttcagatcgt tcacatatta 240
ctagtggctc tgaagataaa gcggtatata tatttgccat gtccacatt 289

<210> 1960
<211> 243
<212> DNA

<213> Cyanidium caldarium
 <223> Clone ID: LIB190-038-Q1-E1-E9
 <400> 1960

tccgatcgta cagttgtcga tcgttccact ggtacgtacc atttattgag tgatcctagc 60
 gatccgttca atccggtagt tctcagtatg gatatgttgg aaccacaaga agacatgata 120
 ggaacgattg attagtatat tgcattctaaa aggaagaatg aatagaacac accactattt 180
 tattcttaaa aaaaaaaaaac tattgtcaat aattttcaac gctactgtaa aaaaactcat 240
 gac 243

<210> 1961
 <211> 372
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-038-Q1-E1-F10
 <400> 1961

tctaggtggt ttgcgagcga agaaaaccaa gcgattggtg gagactgcaa aggaaaccag 60
 ctgcctggt tatgagttgt tgaagagttt agaactaagg ctgcaaacaa ttgtatttag 120
 aacaggctat tgtaagagta tgagagctgc ccgtcaacta gtttctcacg gacacgtacg 180
 aatcaacggt gaccgtgtgg ttcaaccaag ctatcgtgta aaagaaggag aattcattac 240
 catcgatcca catataggaa tctgtagggt acctttcatt ccactcttcg acccgagggc 300
 tacaaagttt aagaaaccag aagattgtga tgtttatata agtcccccta tcttctcgta 360
 cnaccaaata at 372

<210> 1962
 <211> 327
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-038-Q1-E1-F3
 <400> 1962

cggtcgagca cgcgtccgag atttagccaa cggcgtcgtc gtttcccatg ccaaagaca 60
 aaaaagaagt ggacaaggca aaaaagcag ctacggctgt aaagtctgga ttgaagaaaa 120

agaaagggtca taagataaga acaaagggtcc acttccaccg accgctcact ttgagattgc 180
cgagacaacc aaaatatacct cgcaagtctt ttcccaaaaa accagcttta gatcaattca 240
aaattattcg atataccttta acaacagagt ctgctatgaa gaaaattgaa gatcacaata 300
ctttgggtttt cttatgacgac gtgagag 327

<210> 1963
<211> 330
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-038-Q1-E1-F5

<400> 1963

agccataaca gagttagata ctctttcggg agagagttac aaggactcta ctctcattat 60
gcagttgtta cgtgataatc ttaccttgtg gacttcagat atgggcggtg aagaagatgg 120
aaacgcaacg aaaccagacg gaaaagttga accagacccg aacaaaaagg agtgatagat 180
aaaagcatgt gcgatatgtg tgtttttggt ttctgactcg cacattgctt ttgcacgata 240
agaagaaaga aagagagata gttgaatatg cagacagat gaatttgttt taagacgaca 300
caacctgttt ggcaataaaa aaaaagtgat 330

<210> 1964
<211> 380
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-038-Q1-E1-F6

<400> 1964

acggacgcgt gggttcaaag caacttatct tcaatagtaa tgacgccaca agggacgata 60
agcttgtctt atacagacaa gtgctcttgg aaaattcgac cagtttactt caaatgtctt 120
tccatcaact tttgttcagg tctatgtgga agagaaaaga gagaacactg tatttgaaag 180
ctgacctagt acaactggtg catcttgccg agttgaggtg aacaattcaa atgaaatgaa 240
tagtctcaag taccggaata ggttcacaag gtaatttttt agcagtcact tggtttcgtg 300
acagtggaaa accgcagtga aaagtttgtt gatcaatacg gcgaaaggta taacaacgga 360

aatttcttaa cgagaaacat

380

<210> 1965
<211> 324
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-038-Q1-E1-G1

<400> 1965

aaacagatgt atgattcagg caatgaactg acgcattata tcatataata acacatgcaa 60
gtaggtaaag cgaacgggtg attaaatacg tgttacataa tgcgagacca tcaaagcata 120
gaacaatgta acaaatgggtt acagtaaaaa ccatagacga agtatacgcg ggaatctcac 180
atgaggaaag ccacattggg actgacaaat ggtccaaata agataagtca gcactgggga 240
aaattcggca ctgtactcga aagtatgacc cagtaatgac gattgtatta aacagaatac 300
gcagtaaaat gatgtaatca acgg 324

<210> 1966
<211> 414
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-038-Q1-E1-G10

<400> 1966

gtccaagcgt ccaagcagat ctgtgagcat cggctgaagc atctctggaa gcttacaagg 60
cagcaagtga gatagcttcc accgaattgg ctccaacgca ccccatccga ctcggtttag 120
ctctgaactt ttctgtcttt tattatgaaa ttatgaattc tccggatcgt gcttgtcagt 180
tggcaaaaaca ggctttcgat gatgccataa cagagttaga tactctttcg gaagagagtt 240
acaaggactc tactctcatt atgcagttgt tacgtgataa tcttaccttg tggacttcag 300
atatgggcgg tgaagaagat ggaaacgcaa cgaaaccaga cggaaaagtt gaaccagacc 360
cgaacaaaaa ggagtgatag ataaaagcat gtgcgatatg tgtgtttttg gttt 414

<210> 1967
<211> 422
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-038-Q1-E1-G11

<400> 1967

gtccgaccac gcatccgatg gtgtataacc agcaaataatg atcagaacaa cgaaaaacat 60
cgccaagtaa agttcaatat tgaagaagga aatgggtcttc cggatacggc tactacggag 120
gaagtttttag aaggggttgaa ggatgcaggc tttgaattga tcgatgccta cgatttggcc 180
gaatatctgg aaactccttg gtatgctcca cttagtcca gtttttctgt gaatggtttc 240
cgtcataccc gattaggaca ttatgtaaca catatttctg tgcggtttct tgaaaagttg 300
ggattatttc ctaaaggctc atctcaagtc agcaagttgt tgatgaatgc agctcgtgac 360
cttgtggaag gaggtaaatt angcatttat actccgatgt anctttttgt ggcaagaaag 420
cc 422

<210> 1968
<211> 359
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-038-Q1-E1-G12

<400> 1968

tgagaagtat acaggaggtg atccatcgag aatgaaagtg tccgtggaga aactagacga 60
agagcagggtt ccacttcata aaagagacta ttgtgcacat ttgtatattc ctttgcgccg 120
ttgtttgaga gacaactatt ttttgccgtg gtcttgtgag gaagagaagg aggcgtataa 180
ccggtgccaa agaaaagaga gaagaagaag agaacgactc tataagaaaa tcaaggaaga 240
ggcctccaaa gtatcggcga cggaagaaca agatgaataa tatcgtgttg gtgcgtcgtc 300
nttgtgttgg aacaataata actcctcaaa tagttaacaa cctgagttga atttcaagt 359

<210> 1969
<211> 441
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-038-Q1-E1-G3

<400> 1969

gcgtccaacc acacgtccgc ccacgcgtcc ggatttggcc aacggcgctc tcgtttccca 60
 tgccaaaaga caaaaaagaa gtggacaagg caaaaaagc agctacggct gtaaagtctg 120
 gattgaagaa aaagaaaggt cataagataa gaacaaaggt ccacttccac cgaccgctca 180
 ctttgagatt gccgagacaa ccaaaatata ctcgcaagtc ttttcccaa aaaccagctt 240
 tagatcaatt caaaattatt cgatatcctt taacaacaga gtctgctatg aagaanattg 300
 aagatcacia tactttggtt ttcttatgcy acgtgagagc ttccaagcca caaatagcgc 360
 acgcggtaaa gaaaatgtac aacattgtgg cagaaaaggt gaacacctta atgaggccgc 420
 acggacagaa aaagcttatg t 441

<210> 1970
 <211> 383
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-038-Q1-E1-G9
 <400> 1970

gtccgagttt ttagtaaaag ttttcattca gcatggctcc taaagtgct aaaagtgtac 60
 ccgttgccagg taaaaagccg gtggcaaaag ttgaaaggaa gaaatcaaag aagaagatcg 120
 gagacgtatt ccatttatat atacaaggtt ctgaagcaag ttcacctga caccggaata 180
 tccgcaaagg ctatgagcat catgaattcc tttgtgaatg atatttttga gagaattgcg 240
 tcagaagcta gcaaattagc tgcttattcg aaaagcaaga cgcttacttc gagagaggta 300
 caaactgccg ttcgtctttt gttaccagga gaacttgcaa aacacgctgt atcggaagc 360
 tacaaagcag ttacanaata cac 383

<210> 1971
 <211> 393
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-038-Q1-E1-H10
 <400> 1971

aacacaaata tgagtatatt tgcaccatcg atcctcatta ggacgctgtg atgcgcaaga 60

gaagaaagat gagacagcgt tccaagtaac ggaagaattc ctcggacgtc tgagttgaat 120
agagttccta aaacgtggaa aaactctttt tgcaactctg gcgcagttag tataccctgc 180
tacggaaggt tggaagtgtt tccgaggatt gttcgcaagt tatgataaaa ggttcttgtg 240
gttaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaaaaaa 300
aaaaaaaaaa aaaaaaaaaa ataaaaaaaa ataaaaaaaa aaaaaataa aaaaaaaaaa 360
aataaaaaaa aaaaaaaggg gggccccccc aaa 393

<210> 1972
<211> 404
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-038-Q1-E1-H5
<400> 1972

agcagcatga gcagttggaa gtattatggc aaaacataaa ggcaacaatt tttcccgtcg 60
aaaatacttc aactattcct tgtggatggt tgaatccata caatctttct acacctatag 120
gaacaaagag tttgggagtt cagaaacaag cttcttggtc cagcgaaact acttgtgaac 180
gtagacgtta cagtatagaa aacttggttg agctttctag tcgtccttat ccaaacccttc 240
cagcgcataa aactaagaaa cgaaaaagag aaatagagga agaagagaaa cagtttacat 300
taccagactc agatgtgcgt aattgacgat attgtcgtaa aaggaaagaa tagctctctc 360
acctttgaag atatgtttct ttgcgatgcg ctaattgctg gtct 404

<210> 1973
<211> 451
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-038-Q1-E1-H6
<400> 1973

cccgggtcga ccacaagtc catccgtgt caacgagctg tttctctggg tatcaatctg 60
gcgtcgtaa ccaaaatatt aaagtgtgca ggaaatgat acagtataac gctaagagca 120
gacgacaagg gagataaggc ggagtttgtg tttgaaagtc aaacgcaaga cagtctttct 180
gagtttgaac tgaaactgat ggacatcgat tcagagcatt tgggtattcc tgacacaaag 240

tacagtgcag tcgttgaaat gccttcttca gaatacagac gtatctgttc cgacctaggg 300
 gtgatgggtg ataccgtgag gatatccgtc tccaaagaaa gtgtcaagtt tcaagtggat 360
 ggtgatattg gcaaggggaag tgtctgtcta catccatctt ctgtgggtga taagcctaca 420
 gaagttgtga aaatttcctt ggaagaacct g 451

<210> 1974
 <211> 370
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-038-Q1-E1-H8
 <400> 1974

accacgcgt ccggaacat gaaaagattg tcatangaaa gtggagcaaa gactttttca 60
 gacatttgag ggttatgcct cctcctcctc ctctcctca atcctctata tcgacgacca 120
 ttactggaaa agctatttgt agttatgttt ctgcgctatt agaagaaaga gatcgcgtan 180
 tgaatgctat tcgaaagcat taagttccta gttgtatgtt tacagaggag aatgattcat 240
 aaacggtttc cagcaaagag ctatcaattt aacttggagt tatgatgcct ttgttactgc 300
 ggtttgggtcg agagaagatg ttcacagggt gtttcctaaa tattgtgaac ctcttctcc 360
 acctctacct 370

<210> 1975
 <211> 405
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-039-Q1-E1-A1
 <400> 1975

accacgcgtc cggttttcga cctccgaata aatttcgggt ttggcgctt gtcccgaatg 60
 tctctcgggt caaagtcttt tgatcctctc atacaaataa gaatcgactt gactctctcc 120
 ggaagaaggt tcgtcgacac tttcttatgg aatatagaag aatgggagga ttctatgcga 180
 gcgttcgcaa gaactatagt agtagatact tctttgcctc actcggcgga ggagcaaatt 240
 gtttcaagca taaaagaaca agtggcgggt tacattccct atcgttctca agaagaagan 300

acaggagaaa gaagacacat tttaaagcta gacattcgta tagggaaagt agtactaaga 360
gaccagttcg aaatgggacg aagcaatgcc gataactctc ctgaa 405

<210> 1976
<211> 406
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-039-Q1-E1-A11

<400> 1976

gacccaaacg tccggtagct ttaagtatgt tcaataccga tgaatcgata agaggatttg 60
caaagtccttg tttcgaattt gcagctgcta ggaaactgcc cttgttctt tccacgaaaa 120
ataccatttt gaaaacgtac gatggaagat ttatggaaat attcgaccaa gttcgtaggg 180
aatatcctca tgttgcttat gaacaccgcc tcatcgatga tatggtagcg caggcattaa 240
agtcgagtg aaactttgtg tgggcttgca agaattatga tggagatgta caaagtgata 300
tcattgcaca aggtttcgga agcttgggaa tgatgacgag tattctcatg gcgccagatg 360
gcaagacggt ggagtcggag gctgcgcacg gtacgggtta cagaca 406

<210> 1977
<211> 410
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-039-Q1-E1-A2

<400> 1977

atacatatcc ttgtttttat tggatatttag tacagtgtct tggacggtgt tttatcgcta 60
tttacaaggt tcgaccacag aggactcggt cataaataac gatagcgagc tgtattcgat 120
agtcgaacag gaaacttttg atgaagcaac acattcacgt gctacggatc acacagcgca 180
ttctccagca gttggtccac aaacaagtac agctgtgcca tcggatgcca aacaacaact 240
tcatggagac aacttggtat cgccacctac gaatacagaa ataggaatgg aagatacttg 300
gaataacacg tctcgttata tgtctatatt atactatagc tggataagat ggcgtcattt 360
attgcattcc tgtcgacatt gggctactcc tccttcgatt gccatcgat 410

<210> 1978

<211> 416
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-039-Q1-E1-A3

<400> 1978

gcaaggagat caaaagttat tacaaagact tgtacaacat aaagtagttt gtgaaagtga 60
cttgataaaa tggtttcacc aattcgtatt gcaatccgca cgtggaaata acaacaacaa 120
ccagacaggt ctacacagaac agttgaaagc tcgcttggtc caatacaaag caaaactgca 180
gttggttacgt ttgtcgctaa atagtatatg ggtacaagaa agaatactt cttattgggtc 240
gattgtcaat gcacgagatg acagaattgc gcaaaaagtg tgcaaatata ggcatacaga 300
tattttgggtt ttcaaaacga tgggtggatta tgtattgcaa gaaaagaata gtcccacgga 360
gctgatagat aagcgtgagt tggtatcgtc gttggatagt ctcaaggaaa agagac 416

<210> 1979
<211> 361
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-039-Q1-E1-A5

<400> 1979

cccacgcgtc caccacgcg tccggcttaa aattgagggc ctttgactgg attgaagtca 60
accatgtcag taacgctact taacctggt gcggaaataa gcaaacgcgg agtcgcgttg 120
tacactacta ttaacgctgc gaaaggacta caagatgtgc tacgttcgaa tcttggtcca 180
aagggaactc tcaagatgct cgtttcgggt gcaggagata ttaagcttac aaaagatggg 240
aaaattctac tggaagaaat gcaaatccag aacctacag cttccttaat tgcacgaacg 300
gccactgccc aggacgacat ggtccgagac ggtacgacaa cttgtgtcat actgactggg 360
g 361

<210> 1980
<211> 291
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-039-Q1-E1-A6

<400> 1980

accacgcgtc cggccacgcg tccgcgcacg cgtccgcca cgcgtccgca gaagaagtca 60
acagtgtgcc tcgtggatag aaataaactt tatcttatta tgctcaatgt acactactaa 120
taacactgaa aggcagacta cacgaatgtg ctaagttcga atcttgggtg aatgggaagt 180
cacaagatgc tcgattcggc tgcaagagac atttactga cagtcgatgt gaagcttcta 240
ctgtgagaaa tgctgtcga taaccctaca gtttccttag ttgcacatcg g 291

<210> 1981

<211> 435

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-039-Q1-E1-A7

<400> 1981

aggaggattc tgtgacgtat cctagaggca tcacggccag aggatataac tcagttatat 60
gaagttctta gacatcgagt gcctaagcga gtcctaaagg aagcttaatg acctcgaatt 120
aacggactat cgtgttcgtt gtcaattgga agcttattcc tgtaaaccg caggttttga 180
caaaaaattg agcaaatcgt tggagcaaag gttgttgga caacttgaag cttctccaag 240
ggcattccaa gcgtctcccg tgggctcttt agaagaccaa agtgcccgca agacattaat 300
caacctcatt tgcacactga acgctgcgca ccaggattac gactttagct cgctgcagct 360
ttcaagactg aaacgtgtcc aagatgtaca cgcacttcag cagcacgtcg actcgctgtt 420
tgagcgcttt tacag 435

<210> 1982

<211> 418

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-039-Q1-E1-A8

<400> 1982

agagattttg tggttcaatg gcttttgttg caactagtgt gatcataccc acaaagtgtc 60
gtttacaaaa gaaagtatca catattccct cgtatttgtg gaggatgagt tgggttgcaa 120
ctttaaaatc ttccaaaata gaaggctcct ctgctattcc agaaggtgaa cagcctgacc 180

tccatacaaa gtgggagcag tgtttacaag agaaagggtc accagagtgc caacagtgtc 240
aaggttcaag acaaatacca tgtcctgcat gtgaaggaaa gggttatttc gtgatggaag 300
ttttcaatgt tacctctagt aaccagtgtc aagtttgccg tggacaccgt aaaactcctt 360
gcccaacttg taaagaatac atttatcggg cagtaaaaga tttatgatat aaagtata 418

<210> 1983
<211> 401
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-039-Q1-E1-A9

<400> 1983

cgtccacca cgcgtccgcc cacgcgtccg gggaagttat ggcaaaaaca cgtgccagca 60
gcagcggtaa aacgtgtgta gcaagcgtag agcagaagaa ctgggtgtaa aggtcgagta 120
gtagagtaag tgtaaaaggg aaaggaaagg agagaaagag gaaagggatg aaatgcagag 180
atctctagag aaaggcaaga aagaaaagaa aggaagacac agtaaatgag gcgagaaagc 240
ataggaagtg aaacggatta ggaacccgtg tagtctatgc agtaaaagaa agaattgagta 300
agaaaaaagg gagtcattcc accaggggag taaaggcgca agaaagaaac ccaaagcaat 360
tgacgggaat cggaaaaanag ggtggatcac gtaaattaat c 401

<210> 1984
<211> 392
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-039-Q1-E1-B11

<400> 1984

accgtttgca cgtagttgat caccgagaag aagacgattc ggaggaccgt atatggaggg 60
aagaagaagc tgaggaagtt ccaaaatacc aagttccaga agagagctac gcacagagag 120
aagttagtgg aagaaagttt cgagaagaaa tgcttcaagc caaagcttca cactctacca 180
acatagaact ccatgttggc gatagatgct ttgttgccgc taataaccgt gttgcaacag 240
ttcgttacgt cggaaagctt cctgttcatg aagctgaaac agtgtttggt ggagtcacgt 300
ttgacgaacc tgtaggaaag aatgatggca gttatcaagg acattactat tttcactgcg 360

aaccaggata tggaagtttt gtcctttga aa

392

<210> 1985
<211> 164
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-039-Q1-E1-B4

<400> 1985

aaatgatgat tgctgggttt tgtggctcaa tagcccaagt tagtccttat tacaagaagg 60
ccttgtgttg taaaaaagct tgtgtattta gatgctctgc tcataaacat aacattttga 120
aatatttgga ccatgtttct cccgggaaga aaagaaagcg tttt 164

<210> 1986
<211> 396
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-039-Q1-E1-B5

<400> 1986

cccacgcgtc cggaattaag tcggatggaa tagctaagaa tcttgaagaa tggaacgaaa 60
taaaaatcat tcagactcga gttttcacca tgaaagaaca gaaacaactg aagagtcgac 120
gtcagtcctcg acggaacctt gtatgggaga gttgcagcaa cttctttcag tgacacttga 180
aagaagccat ttggacataa ggaagcttca acaagcagcg aacgattttc gtttatgcgc 240
aaagacgttt aaaatatgtg atgtgaagtt ggaacaaagt tttctcaaaa agtcaagtga 300
ttagacaccc tcatggtttt tcattgaaat aactggttgc tcttccttga gggcaactat 360
ttattacgaa aatttcgtgc accttctctt acaata 396

<210> 1987
<211> 358
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-039-Q1-E1-B6

<400> 1987

actttattgt gtttcccttg tgtgcgcttt accgtatagt agaaattcta atgttacaga 60

gctagatccg cgttcttttg aaaaacaagt ttggggctca ccggagaact ggtaagggag 120
 ttggaatagc ctaactcacg ttcgggctg ccctaaggaa acaagaatag gctcatagag 180
 ttctatgctc cttgggtgctg ttattgtaaa caacttgagc caatttacga gaaagttgct 240
 tcgaaattga aagatgctgt aagagttgga gcagtaaagc cagacaaata tccagagctc 300
 gcacaaaggt ggtgacggtg ccaaaagggt gcacggaaac tgcttgtgtg gctgaaat 358

<210> 1988
 <211> 390
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-039-Q1-E1-B8
 <400> 1988

acatcaacaa ggaaggaaag gacacttatg tcaagttcca ctgggttctt aagctagggg 60
 aacagaatct actcgatgac gaggcacaga ttgttgagg aaaggatttc tctcatgcaa 120
 ctcatgactt gatagaatct attgacgctg gtgactacc tgagtatact atgtgtatcc 180
 aaacaatgga tccagccaca gaaaatgact atgattttga tcccttagat gataccaaga 240
 tttggccaga agacatgttt ccaaagaggc ctgttgagc tcttgccta aataagaatg 300
 ttgacaactt tttcttagaa agtgaacaga tcgctttctg tccaggtgtg atggtaccag 360
 gtatatatgc ctctgatgac aaaatgctgc 390

<210> 1989
 <211> 210
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-039-Q1-E1-C2
 <400> 1989

accacgcgtc cgcccacgcg tccgcccacg cgtccggagc aaatcgatat gaaaaggcaa 60
 aatactccaa atagaaagtt ctttaccgct gtagtggtcg cactgtattt acatgctgtt 120
 cactcgacac caaaagatta tatagctgta catttggtgca actttgttgc ttttactatc 180
 gtatttatag ccaaaatgcc ttggatgcac 210

<210> 1990
 <211> 405
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-039-Q1-E1-D5

<400> 1990

cccacgcgtc cgcggaacgcg tgggcgcacgt cgcatttgta gtagtattgt ggtgctcttt 60
 ccaaccggtt tctccaacga cgcaacacaa aaatgcctcg tggccaaga aaacatatga 120
 aacgtttggc agcaccacaa cattggatgc tcagcaaact tgggtggtatt tgggcaccta 180
 gacctagcag tggaccgcac aagttgcgag agtcactacc tctcttattg gttctccgca 240
 atcgactgaa atatgcgctc aataatagag aagcagtggc tattttgatg cagcggttgg 300
 taaaagtggg tggaaaagta cgcaccgata aaacttttcc agcagggttc atggatgtga 360
 ttgaattgga acgaaccaat gaaacttttc gtttaatgta cgatg 405

<210> 1991
 <211> 362
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-039-Q1-E1-D6

<400> 1991

accacgcgtc cgcatttttg tagcgtacag gttgtggttt tcagtttgta tggtttggtc 60
 atttgtgccc gtaacgaagc ctattactac caattgtcgt caaaagaaga aaagtacggc 120
 tcaatggggg aaaagatggg gaacatacgt accgtcaact agcggttcgt tcttacagtg 180
 taacaggtgg aataatcaca agcaaaactt tcgaccacaa aggcaactct tccattgtgt 240
 cttggaagac tttagcacgt ggatgtgcaa cttgaagagt tacgtggaag acaatactcg 300
 gaaaatttgg agacaatcca agattgaagg gcagcagcac aaagaaagtc aaacgccgga 360
 aa 362

<210> 1992
 <211> 447
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-039-Q1-E1-D7

<400> 1992

gtcgaccac gaatccaacc acgcgtccgc attttggtag cgtacagggtt gtggttttca 60
gtttgtatgg tttgttcatt tgtgcccgtg acgaagccta ttactaccaa ttgtcgtcaa 120
aagaagaaaa gtacggttca atgggggaaa agatggggaa catacgtacc gtcaactagc 180
ggttcgttct tacagtgtaa cagggtggaat aatcacaagc aaaactttcg accacaaagg 240
caactcttcc attgtgtctt ggaagacttt agcacgtgga tgtgcaactt gaagagttac 300
gtggaagaca atactcggaa aatttggaga caatccaaga ttgaagggca gcagcaaaaa 360
gaaagtcaaa cgccggaaaa gtcgaccttc tatttacaga agcaactttt gaaaggccag 420
ttggagagta ttttacggga cttgtac 447

<210> 1993

<211> 322

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-039-Q1-E1-D8

<400> 1993

aattacaggc aagggaatgc atctcatccg ctgttacatt gattgtgatt tgttgtgctg 60
agcgagaggc aagggtgtat catggcaaag gcagtgagaa ttggtgctga aggttacagg 120
ttaaagttgg acggtgcagt tcaagagata gacggtcgtt ctgtagttct ggtagatgtg 180
gatagtatta cccctctcat gtttggaggt agtatgaaag aaaaggccaa attgttggat 240
gccaaagttc taaggaagta ttatgaggag aacaaggact tcttcttctt gtcgactaga 300
gaagagaaga aaatgtttgt ga 322

<210> 1994

<211> 345

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-039-Q1-E1-E10

<400> 1994

ggtaclagtc tagaagtccg ggccgaccca cgagtccgaa aatattcaac aagagttgaa 60
cgactttgtg gaaaaaacia gagaggaaat ggaacaagta agtaggaata cgagtgttgt 120

aagttttcca tcacagactc gtggatatag atggtagagt gtgttgetca acatatcggt 180
aagaaagaag aacaacaaag agggagctac catagatagg atgtatttat ggatatgttt 240
gtgtctagat attgccaata aagcgggtgtg tttggataaa aaaaaaaaaa aaaaaataa 300
aaaaaaaaag aaaaaaaaaa aaaaaaaaaac aaaaaaatca aaaag 345

<210> 1995
<211> 361
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-039-Q1-E1-E3
<400> 1995

aattggtttg ggattgttgt gtattggtgg agttgcaaag aggaaaacat gtcaaagttt 60
gccttgccctg cattgcctta tgactacagt gccttggaac cacatatcga cactatgact 120
atgaacgtac atcacaaggg ccatcaccaa acttatgtca acaatttgaa tggtgccata 180
caagggggaac atgggggtca gttcaagggt ctctccatcg aaaacatcca gaggaatgct 240
gcaaaggcac ctgatgctat caaggcaact gtgagaaata atggcgggtg tctactacaat 300
aattccttgt tttggacact aatggcaccc acaggatctg caaatattgc acctcacggt 360
g 361

<210> 1996
<211> 428
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-039-Q1-E1-F1
<400> 1996

accacgcgtc cgcccacgcg tccgcccacg cgtccggtgg gatgaagtac aaacaagcag 60
ttttgagtga aaatgtgatt cctcaagaag tgagtgccaa caagttgcga gcctgtatgg 120
tttgtggact ggtaaagacg ttttaaccagt ttgtcgtttt tggctgcgaa aactgtcctg 180
gactgataga cgtgagagtt gcagatagag aacgagtagc aaccgttacc acgagtttat 240
tttcagggtt ggtttccatt actcgtcctt tggatagttg ggttgccaag tggcagcgag 300
ttgctcgtct cgtaccggtg tgttatgcaa tagcagtagc agctgctctc cccgaagata 360

ttgtggaaga gttggaagaa aaaggacttc aagtacctcg aacgagagca acgcagctgc 420
ctatgaat 428

<210> 1997
<211> 373
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-039-Q1-E1-F11

<400> 1997

acggacgcgt gggcggaagc gtggcgagc aattcaaggc aaaactgagg caagactgga 60
aaacggcaat atttgcttca tggaaagtat ggccattggc acacgctatt aactttcgat 120
tcgttcttag caatcaacgt ttactttata tcaacgctgt gcaaataatt tacaacgtgt 180
ttctttctaa tattgggaat aagagggcca cttgagcaag taatgggaat atccaaaaaa 240
tatatatata tatatatcat gagagagata cgtacttggt gtgtgttggt gggttatagt 300
tggtgttggtg tttcattaaa gtgaagttta catatcaaac aaagctaag ataactggta 360
ctcctcgaaa agc 373

<210> 1998
<211> 431
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-039-Q1-E1-F2

<400> 1998

accacgacgt ccgagagcga gttttgggta ttttgtgtcc tcaagcagtc atgttggggtt 60
tcctaccgac catatcaact agtttcccc tacgacaaag tgaaagttgc cactgttccc 120
acgtatctaa atacagggtt gggcagcggt ttgtgcacg caactgtcgt cagcctcggc 180
aaggaacaat cttgataatg tcaagcacia gctcttcgga cacttggtta cagcagatac 240
aagacagcat caagaaagcg gaagaagcaa cgcaaaagta tggaaaaaac tcgaaagaag 300
cagctgctgc ctgggatgcc gtggaagaac tggatgcaga agcttctcat cagagagtaa 360
aagaaaagac cgaccctttg gaaaagttct gtgatgagtc tcaagaagcg gacgagtgc 420
gagtatacga t 431

<210> 1999
 <211> 413
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-039-Q1-E1-G10

<400> 1999

ccgggccgac ccacgacgtc cgctggaaag tacagtggaa agaattattcc agaagggttcc 60
 cgactgtcac tcgagaaata caaaggattg aaggaagtag cttttacgga acgagagtgg 120
 cagattgaga agaccgatca gttgaagcca cttgctcaag aacttggttg tactgtagct 180
 cagttagcga ttgcttggtg tgcagcgaat ccccatgtat ctaccgtgat tactggagcc 240
 acaaagttgc agcaacgaga agagaatttc aaggcaatgg atactgttcc caagttgaca 300
 ccggaagtaa tgaaacgaat cgacgacatt gcacaaacca aaccagacta caatccagaa 360
 atgaaaatgg cacgtcgagt gagaggaata gaaaaggctt gaagatgtaa tgt 413

<210> 2000
 <211> 417
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-039-Q1-E1-G2

<400> 2000

gcgtccaact ataacttggt gctacccaac gatcttaata acaatactag caacgcacga 60
 ggatgacaag aaaatgtcgg tttttgatcc cccatgggga ataacatgag taaccactat 120
 aataatattg ctagatgtag tattgatcac caactacata actaaatgtg ataaatgaac 180
 atgtaactat gaataacgct ccagattttg taaattttct tacttttgac aactttcctg 240
 attacatgaa gtcgtatata gatgtatggc gaaacgtacg aagcatgcgc agtcatcaa 300
 gtcgaagtcc tgtcaaactg ataaaatttg aatgaacttg atagttgaat gtcgacgtat 360
 ggatggccct atccgtcaca actgtcctta tttttgtaca agaacgactc acctatt 417

<210> 2001
 <211> 157
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-039-Q1-E1-G4

<400> 2001

ctggttgctc cgactgctct gagttgcctc tttccctctt tccttatcgg tgccgcaatt 60
gcacccgacg tactttcaga ggatagatcg ggatatgctc agcaaggcct gttgcaacat 120
cagtgccaac tactatgtta gcagtatgca ttctatc 157

<210> 2002

<211> 420

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-039-Q1-E1-H2

<400> 2002

gcgtccgacc acacgtccgg ctgttcagcg ccaaactgac gacgtcttcc gaaacctcag 60
tttacagctt gtgcaaagag gacaatagct tggcttttcg tagcttttta aagcactctt 120
gggtgtgcgt cagtgtctatt cactattgct ttgggtgacc agagagaggt acattcaaac 180
actccatttg ttacttttat agagaattac acgcggagca attctgcaca agcggagaaa 240
gggaagagggc aggcattcaa gccaacagct actgactcgt cccaggctta gcaaaggaaa 300
aaatcccgac gagtactata catgtttcga tgcagagttt gggtctggct gtattttgga 360
tagagaatta gaatttgtac tcaactggcat taatacttta cgatgtcacg tgacatatgc 420

<210> 2003

<211> 330

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-039-Q1-E1-H4

<400> 2003

aggaatgaac taaagtcaac gaaaagctcc ttgagacttt gtactgggtgt gtttgttccc 60
aanaatagta attttctgtt agatacgagg cacgctcttc tagttgggcc cggttcctgt 120
gtccacctaa gagcgtttcc tagaaaacta gcagaaatta cttccttgag aagtgacgct 180
gctgtgagcg cttctgttac atatggagaa gaaaattctc cacaactgtc cgtttcggac 240

cttgcgttg gagagacgta tactggaaca gtgaagaata tcaccaacta tgggtgccttt 300
gtggatataa gagcaaaca aatgggattg 330

<210> 2004
<211> 447
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-039-Q1-E1-H6

<400> 2004

gaccacgac gtccacgaga gagagagggg atgagtaccc cagccagacg aagattgata 60
agagacttta agaaactaca acaagaccct cctagtgggt gtagtggtgc tccttgtgag 120
aatgatatta tgcgttggaa tgcagtcac ctaggcccag aagatagtat ctgggaaggt 180
ggcacgttta aactaacttt tcagttcacc gaagactacc ctaacaaacc gcctacggtc 240
aagtttgtgt ccaaaatgta ccatcccaat atttactcgg atggaagtat ttgtctggat 300
attttataaa atcagtggag tcctatctat gatatttcag cgatattgac ctccattcag 360
tcgcttttgt ggcacccgaa ccccaactca ccggctaatt cggaagctgc taggccttat 420
cagganaata gaagagaata cgaccgt 447

<210> 2005
<211> 393
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-039-Q1-E1-H8

<400> 2005

ccacccacgc gtccgggctg actatccttc tcctgcacta tgtctgcgaa tattctgaat 60
aaagtagcca agtatgccat tgttttggga gttgctgggt ctgccttgca atcttcggta 120
ttcgttgtag ccggtggta ccgggcagtc gtgtttaatc gtttcacagg agttgaagaa 180
cacgtacgtg ggggaaggaat gcacttgaaa atcccggtggg tacagagacc tgtcttattt 240
gatataagaa cgaggcctag atcgatcaat tcggtgacag gaaccaagga cttgcaaagt 300
gtgaacctcg tgctacgtgt gctatccaag cctaacagag atttgttacc acgaatatat 360
tctagattag gacaggactg ggacgagaga gtg 393

<210> 2006
 <211> 381
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-040-Q1-E1-A11

<400> 2006

agcgattcca tgttgaaaga gggtagacgt atattgtccg atctcaagtt tcagggtgctt 60
 caagatggaa aacctcaggt gataacttcg gatcaagtat tcggaggaaa gaaagtagta 120
 ttgtttgggt tacctggtgc ctttactcca acctgctcta ggcagcacct tccaggcttt 180
 ggacagaagg ttgatgaaat caaatcgaaa ggagtagata cagtcgcttg tttagctgtc 240
 aatgaccctt ttgtattaca tcagtgggca gagtcacagg gagtggcagg aaaaattctc 300
 atgttagcag atgggtggtgc gcaatctgtc aagaaacttg gactggatat cgatactggt 360
 gactttggtg gtattcggtg t 381

<210> 2007
 <211> 416
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-040-Q1-E1-A4

<400> 2007

aactcgtgaa acttacagtt ggtgtaggat tgcctaaagc aaagcgtgga gattggctta 60
 tggagaaact ctgagaaata ggcgttgata cagtaatacc tattcattat gaacgaacaa 120
 attctgaacc ttacgaacgt gatagaaaac aacggtggca gaaaatttgt atctccgctt 180
 gcaagcagtg ttgccgcaat cgcctgatga agatagagga agagcaatcc tttcaaaata 240
 ttttatccaa gcaacaagtc tacaacact gggatcaagt gtatgtagct tctatggagg 300
 caactcgtcc aatgatactt cctccagtaa aaagtgccag tatacttgct ttaataggtc 360
 cagaagggtg attgacacct caagaagaaa aaatagcttc tgatgttggt gcacac 416

<210> 2008
 <211> 377
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-040-Q1-E1-A6

<400> 2008

cccacgcgtc cgaatggaga caaaaaggta taccaattta ttcatggcgc caatggaatg 60
tttgtgatta cgcacgaaaa tcaggctgtt ctgtagtgc taagacacgg tgccacatac 120
gactattcac atccacctac aacattccaa cgcagtcaat acacaggtaa agagtatgta 180
tatcaatttc atattacctt gattcttcct cgagaggaca actcatgcat tggaataatg 240
gaatattggg tattgataac tccaattgta aaaccactac aatccatata gtcagcaatt 300
acaaaaaaca attcctgtga caaacaata gaaagtgaat ctcaccctcg accagccatg 360
gcactatgta cggctga 377

<210> 2009

<211> 416

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-040-Q1-E1-B1

<400> 2009

ccacgcgtca gggtaagagg actcccaaact gttcgaagt gttatagtaa aaacaattgc 60
cgacatcagc gctggaatct gtgtcgcagg catccacaca tgggaactgg gtgtagtcga 120
cgcataataa atcaacatgt agggaggatt gggcagtgt cacggaagta tgggacaata 180
ttcaggaatc tcgtaagcaa ggcaggaaat aaaaggaagg aatacacggt agatgaggca 240
aaaacacata cgaactgcaa cggtttaaga tctcttgtaa tcgatgcact aaaagactga 300
atgattaagt caaataggag tcattcctgc tagaggaata aaggcacgag agaaaaacgc 360
aaagcatttg atggagatct ctctacaggg gtggatcacg tgaattaatc ggatat 416

<210> 2010

<211> 402

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-040-Q1-E1-B10

<400> 2010

acgcgtctag caagcgtctg atacatatgg ccacgcgtgg tcaagatggc cttgtgcaag 60

tcaagaaggg atatgagtag tagagagatt gcaaggagat aatattttgg atagagcact 120
 gtcacaatca ggagatgtat ttcagtgtct ttgcagcatc cagttgttgg tgaatgcata 180
 cggagctatt agaggaaata ttacttgtcc agaatgtatc gaattgtgtc gtctagtatc 240
 tggacatata gcggttttgg tcgatgaaga tttggatgac ctacgtttgg aaactatctt 300
 gggagcacta ttgtgtactt gttattgtga gtggaagcgt tttgaatgag acttgggggt 360
 acaagaatgg aatgaattgg ggaagatatc ttccgtatat ac 402

<210> 2011
 <211> 398
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-040-Q1-E1-B12
 <400> 2011

ataccagtat cgatccagag gtaacgaagt aaataaacgt ttgaaaggct tcaattatga 60
 aaggaaaaac aagtgtacca cgggtcaattc atcaacctca agctgtacaa cactaactgt 120
 gaaaatgcag taaactagca gtaggacgga aagaacccat aattcatgac tagataagtt 180
 tacggaggag agagaatcat gaagtagagg aggtggggta agagatgaga gaccactgca 240
 tgaggataag gaatctaact gagtaaggaa aataagctta agctagtttg gctggggaag 300
 taaagcctaa gaaagagtaa attacgcaag caaaggcatg agagaagtat aatagcagaa 360
 gcatgcttga agaaaaagaa agagatttca cgaaagga 398

<210> 2012
 <211> 402
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-040-Q1-E1-B3
 <400> 2012

gccggccac gcgtccacc aagcgtccga tctattggta ttggtattgc acacacttat 60
 catgaaaact cctcggcatc tttgttaacg agaggcattt tggatgccat ctccggtgga 120
 attttaatat acacaggatt ggtggagttg ttgacttatt ggtttacgcg caactcgaac 180
 tttttaagac gcaaagccat atctattttt agtattgtgg gatttgtctg gttaggagcc 240

atctgcatgg cgattatcgg agcgtgggcc taagaataaa atttgtttga gacgtcgtgg 300
 tgcagatgac tcgcatgttt ggtagttggt tcaagtttga caagagaaaa catttgttgc 360
 tacttcttac aaataaaaaa gttcacggac aaattgtaga tt 402

<210> 2013
 <211> 191
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-040-Q1-E1-B6
 <400> 2013

tggttcgtcc tggcgggttg ttgcattggc ggatagcttc acgccttcac tacctcagtt 60
 actgccgtcg aggacagaac tcgtctgtgg atgcgacccc aggtgggccc tcccatgctc 120
 agctgatcgt acaggagggc tcatccgagg tgtcagctcg tctccctcct gcaggttcgc 180
 ccacaccccc t 191

<210> 2014
 <211> 392
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-040-Q1-E1-B8
 <400> 2014

cccacgcgtc cgggcaaaag agcgatgcaa agtacgacca acttggggcga tcgtaccaac 60
 gaattcttat cgatagcaca aaactatcaa caagacaag gaatagaaaa ccagacaaaa 120
 agaaagggag gaaatggtgg caagtcggcg ttcaccaaac aagcgataag tattgcacaa 180
 ggaatagagt ccatttccaa gaatttagaa aagctgacaa aagcatgtca gaaaagtagt 240
 ttatttgacg acggttcttc ggaaattcaa caattgacgt ttctagttaa acaacaacta 300
 cacgaactga acaaggagtt ggaagagttg gaacgcattc atcgacaaca aagaaatggg 360
 tatcataaac aagcaatata gcacggagag tc 392

<210> 2015
 <211> 409
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-040-Q1-E1-B9

<400> 2015

ggccgacgca cgcgtccacc cacacgtccg agacagatgg ccaacgctgg tcaagatggc 60
cttgtgcaag tcaacaaaca tagaaaagta aagagattgc aagaagataa tattttgaat 120
agagcactat cacaaccagg agatgtatct ctgtgctttt gcaacatcca gttgttggtg 180
aatgcagaaa gagctattat aggaaatatt acttgtccag aaagtatcga attgtgtcgt 240
ctattagctg gacatatagc ggtttgggtc gatgaacatt tggatgactt tcgtttggaa 300
gctatcttgg gagcactatt gtgtacttgt tattgtgagt ggaagcgttt tgaaggagaa 360
ttgggggtac aagaatggaa tgaattggag aagatatctt ccttagata 409

<210> 2016

<211> 386

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-040-Q1-E1-C10

<400> 2016

acccaagcgt ccgcccacgc gtcagcccat gcgtccgaag aacaggcacc tttgaatata 60
cagttgacgg gataagaata tgaagaagac tatgtggaag gcattctatc tagatgagag 120
atagttttaga tttgtgtact agggtcgtgc tatatttaag tgtttataga gatgtgtgtg 180
tgtgtatgca agtatgatag cactcgaagt ctctttgtc catataaatg agtttcaacg 240
cccagatgtt tgatactcat agtctatact gtctattatt gtagatctag ctgttacgga 300
ataatctacg gacgtgcatg cataaaacgt gccaggctaa ttgatgctat tttgaacagg 360
gacacctgct ccactagatc cataact 386

<210> 2017

<211> 99

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-040-Q1-E1-C11

<400> 2017

cacgcgtccg attgcataga tagatggccg gttatttacg acatcgtgta cacgcgcagc 60

ttcgtaaagg tctcaacggg cgaattgcgt cgtgtgtgg

99

<210> 2018
<211> 402
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-040-Q1-E1-C12

<400> 2018

gcgtccatgc caaattactg antcntatca attgtattcg ggttgcaatg gtggaaacgc 60
ttcttatgga cttgccattt gtgctgaaag aacagcggta gtaaaggctg taagtgaagg 120
tcatactcgt tttcgagcga tagcaatata tacggatgcc gttgggcaag tatggccttg 180
tggtgggtgt agacagtttc tatcagagtt tggaaacttt ccagtgattg ttatgcaagg 240
aaataaccag ctacaagcag aaatgttaca tgacttgta cccaaaagct tttccaagtc 300
cgatttaaaa acaatttaag tegtctctt ttggcgcaac gcattttttt gtgtgttttt 360
ggaattttcc atcgcgttgt gttggtggga ataataaaaa ct 402

<210> 2019
<211> 420
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-040-Q1-E1-C2

<400> 2019

accacgcgt caacacagga tcgacattcc gtacgttgtt tgctgctctc gtatttcac 60
aattctttga aggatttgct gtcggtacta ctgtttccga agcccagttt ggcacttgga 120
ccactatagt aatggtactt tgctattctt tggaaactcc aatcgggata tctattggta 180
ttggtattgc acacacttat caggaaaact cctcggcatc tttgttatcg agatgcattt 240
tggatgccat ctccggtgga attttaatat acacatgatt ggtggaattg ttgacttatt 300
gagtttacgc gcaactcgaa ctttttaaga cgcagagcca tacctatatt tagtattgtg 360
ggatttgtct ggttaagagc catctgcatg gcgattatcg gagcgtgggc ctaagaataa 420

<210> 2020

<211> 248
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-040-Q1-E1-C3

<400> 2020

cccacgcgtc cgagaatttg ttgattatga caacaaacga agaatgactt ttcgttcgtg 60
tttgactgct tttttcgtcg gactgagaca tgagttggac tgagtcaacg acttttatct 120
cgacatagat gaggagctta ccatatcgga tcttattctg aaagttgcaa ttgacgacta 180
catcttagca ctgagagtga gtacgggcca taggagtcac agtggggaga actcagtgat 240
ttgcaggg 248

<210> 2021
<211> 420
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-040-Q1-E1-C4

<400> 2021

acggacgcgt ggggcgtcgg ttgtgagaag tgtcgattat ggggaaaact tcagtttctt 60
ggtgtcggaa ctgcgttgaa aatactatct gatgatcatt tgacatttct tcaacacaat 120
gaagtgaact ccttgttgaa tgtgttgat aagctttcta ctagtgtggt aactattgca 180
tacatggaac gtctccttgt gttgcaacgt attcgatact ggttgttggt tgccagttgt 240
atgatgggtg tggctttggt atttatgttg atgtttcgac gttctttttg ggagcgtgat 300
gagttgtatt acaaggccaa atctgtttaa agtcaatgtt gctatttgta tttgaaaatc 360
tttttttcat tttggaatat gctgggtacta ggttgttggt gttgtatcga gtgacatgta 420

<210> 2022
<211> 426
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-040-Q1-E1-C5

<400> 2022

gacccacgag tcagcccacg cgtccgattt aaattagggc aagagatgtc cagcagcagc 60

ttctatgact agtcgcgtgt atacttttga tacatccaat agctgggtcac cttattgtgc 120
 ctttgaatgg tatagtttca taaccaaaaa agcttattta tgcaagtctt tcatttttga 180
 agtgtttggc gtgggtcatat cgggtggagcg caagtcggac tcgatagagt gtctgttaga 240
 cgattctttg cagttgacca ctttttggtg tcctaaaaaa gatacatacg gattagaaac 300
 tatgttgcgg ttgggtgaca atattcaagt gataggtcac ccgatgggtt ctcaagtgcc 360
 taccttgaac gcggttcaag taacggtgca taaagctccc aactcggaat gcacgtattg 420
 gcttga 426

<210> 2023
 <211> 394
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-040-Q1-E1-C9
 <400> 2023

gcgtccaccc acacgtccga ccggaaccca gtaattgctg accgagacac gaaaaaactg 60
 agtatcaggt aagaatacat ggagtatatc acgaaccaca catgaatgaa gtcacactaa 120
 gagaacgagt agagtgcatt ttgcaagat ttacttcaa gagaacagtg taatacgcgt 180
 cccttatgca tactgtccca ncaatctcac agaggcagcc gatactgtta caccagctat 240
 cccgatacca cccgctgctc attgatcata agctgtccct ccgacgtcaa gctgaaccac 300
 tatctctgga taaccgattt ggaaggataa ccataacggg tgaaaggcca atcagtgcta 360
 ttgagaccag gtacacctcc agagctacaa ccat 394

<210> 2024
 <211> 266
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-040-Q1-E1-D12
 <400> 2024

tggaccgtga aagagctcgt gtttttcggt cgactgggtac tggctcgctt cgaaaccatg 60
 accctttcct catgttggat gagttccgtg tccatgcac agcatgtttt cctgaccatc 120
 cacatcgagg gtttgagact gtcacttata tgtttgacgg ttattttaag catcaggata 180

atcatcgata ctctgggagtt atagggccag gtgatgttca attgatgact gcacgtacag 240
gaatacttca cagcgaaatg cctcaa 266

<210> 2025
<211> 347
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-040-Q1-E1-D4

<400> 2025

acccacgcgt ccgcccacgc gtccgcccac gcgtccgcgt tggttgaaat gtttgcgaga 60
atcgatgcgg tggatatgac aactttgaaa cgagttgcca atcgttatat ctatgacaga 120
gacctgcag taccggtaat gggctctatc tttacccttc ccgactacaa ttggattcgc 180
cgaagaacat tttggaaccg ttattaaaag atgatgtgtt ggagaatggc acaagagttt 240
acaagtcata atataaatct agttgggtggc acaagttgtg aacaacgtgt atatttcgta 300
tttataatat acacagacat gaagaagttg aaaaacagaa caaagaa 347

<210> 2026
<211> 384
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-040-Q1-E1-E11

<400> 2026

acgcgtccga gtggacgatc cgcagacgcg tgagcgaagt gagagttagg catacatctt 60
ttcgtttttg catcattggt tgtaactgct aaagacgcag tgctcaagag acttagagtg 120
aagccgaacc aaacgagcta ggttttgctg tgacagagcg ataaggaagt tgatgtggac 180
agacgtcttt tgttcttttc actgccaac aagtgcacaa gagatccgct cctgccatat 240
gacaaaacaa ctagtcactg agtacaccgt gcgtctgcgc agggcattct agcagcacta 300
tactattcat gagccagtag aatactacgc cataacagcc tcgttctcag aatagtagaa 360
tttttctgca aacaagcttt gggg 384

<210> 2027
<211> 405

<212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-040-Q1-E1-E12
 <400> 2027

atcctacgtc caattcacat catggacaac ttataagctc tgatggattt gaaacgggag 60
 ttgcagggtc cggtgatatt atttttgcat attctggaat tttcgtattt atcgaattta 120
 tggatgaaat gaggaaccca aaagacttta acaaacttat ttatacagcc aatgctattc 180
 ttttcttttg ttactcattc gttggtatct taggttatgc tgtgtatggc aagtctgtgg 240
 tgaatccaat tacttctgct ttaagtgaag gagtgatgaa aagactggcc aacgcatttc 300
 tttggttaca cataacttgcc gcgtttgtta tacacggttt gattcttaat cgtgctatag 360
 ctgtccggtt ttgtaaagca tatgtggatg attttggttg cgttg 405

<210> 2028
 <211> 426
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-040-Q1-E1-E3
 <400> 2028

actcatttgg cacacgaaac tgaaaggagt gagcataatg ggcaatacta tgctttcttt 60
 cactcgagcg attcctacta tcctatcatt gtcgcagcca ttcagctttg gagttcggac 120
 ccttggagtc ttttgtcgca acggacattt gatggacttg attcattaat gtttgtttct 180
 gttgccgcta aagcctactt gagggattca aagttatgag ggactgacct tttctgtttg 240
 aactagcagg attgaaaact agtttttctg ccagatccaa ctcatatata ggaataactc 300
 caaacttggg aacacactgc tctattctca aaagatgctt taagagtta tcatagatca 360
 tatgtatttt gtcccagtga ggatgatggc tactctaaga acaactttca atgagtcaat 420
 atatct 426

<210> 2029
 <211> 371
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-040-Q1-E1-E4

<400> 2029

atcgacgtgt tgtttaaaaa acctaacgtt cgccttcgtt ggaagcaagt tcaattgggt 60
ggagatggga acgtccaaga ataataaacc aagcaacaag ccaaagtccc cctgggtccc 120
ctccggggccc tgtggcaaac aaccctgat actccttaaa aaagtccctt tccaatgcag 180
cactgggtcg ttctcatcgc tccgacaatg ggaaatccaa gctgaagaac gcaatcgaaa 240
agctaagcag attctgcaac ttccttcgtc ttatcgtgtt gctatcgttc caggttctga 300
taccggtgcc gtagaaatgg cgctttggag cttgttaagg ccacgtcctg tagatgtttg 360
ttaatgggag t 371

<210> 2030

<211> 386

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-040-Q1-E1-E9

<400> 2030

gcgtccagtt cagacagtgt agagtcgcac aggtcgattg ccgatgaaca aaagttgacg 60
tttcccttat tatctgatga acgcggtaaa gtacgcaagc tatacgggtg accaaagagc 120
atgtttatta tgctgatcg ctgcacttat gtcattggtc cggatgggtat tgtgcgacac 180
atctacaaca gtcaagtagg tttcgcatac cacgtggacg aggcaaagaa ggcgttggca 240
aatatacgaa acgacgctca agcagcagaa gagtgtgcac acaacactgc tttgtggctt 300
cattgatacg cagaggggtc cagtcagtgt cttcggatgg tgtcggaagt tactttgtta 360
cttgtgttga cgaaacatgt gttttt 386

<210> 2031

<211> 325

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-040-Q1-E1-F1

<400> 2031

ccacgcgtcc aggcaagcgt ccgatgcagt ctattgtgtg aggcttcca tgtattccac 60
atgcaagcga gtaaagtga cgcgagtata agaagatgtg taataaatgg cggtcctaaa 120

agtaaagatc catgtgtttc gtagttagta tacgtttgaa acgcgtccta tatgcaagga 180
gcaatcactg tggcactgat ctttcgtccg actcagcgat caagcaatag atgtcagaat 240
gcctaaactt gcactaggac agggacatac catacatctt gtcaagatga gtttaaggac 300
gagagaaatt catggagtga atgaa 325

<210> 2032
<211> 401
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-040-Q1-E1-F12
<400> 2032

accaatattc tacctaattc cgtggcgcat atacttcac ttttccaag gcaattcaaa 60
cgtattcacc ttccaattca actcccaggt actcatcttc ctatgcaacc aatacttata 120
cttcctatga agctcctcca atgacttatt attatccaga atgggtacttg gaatgttata 180
aatgggtgtt cgaatgtctt ttgtgcaact tggagtacgg tttctattac attcaggaac 240
caactcctac tccctattat cccagctatt ccagttctta tccgatgtac agcagtagct 300
attccagcta cagcagttac ccatcttata caaccagttc ttatagctca taagaaagga 360
tgctgaatgg ttggtcaggc gaaggatgcc tttttgtatg g 401

<210> 2033
<211> 449
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-040-Q1-E1-F3
<400> 2033

ccgggcccga ccacgcgtcc acccagcgt ccggcgtaat cctgggtgga ttgttcgac 60
gaaaacagtt acggctagta gtactacaaa tgtagaacaa gatccatgac cgacagtttt 120
gaacgagaag aatgatgtgg caaattgcac gcccgattca aacgcaaaca tcgagtcgca 180
tgattcatac caacttaccg atgagaaaca ggagcaagaa gatgaagatt ccgacgaaga 240
atacgacaga agaaagagaa agagaattcc ttcattggcc cgaagtcata atttaaagga 300
gttggtgcag cagcaagtaa gtgtgaatcc tgaggaaata tttcccgtg cagatacttg 360

tgatttgga gaaatatttg gtcccaatga gaggaataag agatatcggg aagtggacaa 420
aagttcggat ggatatcgaa taatatcgg 449

<210> 2034
<211> 309
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-040-Q1-E1-G1

<400> 2034

agcacaagtg tcagattcag gcagtgaact gacgcattat atcatagaat tacacatgca 60
agtaggtaaa gcgaacgggt gattaaatac gtgattctta atgcgataac acgaaagcat 120
agaagaattt aacaactggg tacagtaaaa accatagacg aagtatacgt gggaatctca 180
catgaggaaa accacattcg gactgacaat tgggtccaaat aagataagtc agcactgggg 240
aatattgggc actgtactcg aaagtatgac acagtaatga cgattctatt aaatagaaaa 300
cgcatataa 309

<210> 2035
<211> 394
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-040-Q1-E1-G10

<400> 2035

acgcgtccac tttagttcat cgttgctcat tcttggtgca gatatgacag gtcgtggtaa 60
aggtggtaaa ggtttatgaa aaggaggtgc aaagcgtcat cgcaaagtct tgcgagacaa 120
tatccaagga ataaccaaac cagctatccg tcgtttggcg agaagaggtg gagtgaaaag 180
aatctcagga cttatctatg aagaaacacg aaatgtcctt cgtgttttct tggaaagtgt 240
tattcgtgat gcagttactt atacggagca tgctcgtcgc aagacggtaa ctgctatgga 300
tgtcgtatat gctctgaaac gtcaaggccg taccctttac ggatttggag gataaagcct 360
gcttgaacaa aggggtgttc tcaacacctt tcat 394

<210> 2036
<211> 352

<212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-040-Q1-E1-G12
 <400> 2036
 ggaaggactt accaaaataa ggggcattaa taagaaggaa aattggtgaa acttaacccc 60
 cttctaaaca aaacttacca gaagctttga aaaaaagaga ctatatggac tgtatatgga 120
 tatgtgaaga gttggagttg cagtcacac tacaaggaca accttttgag tttataccc 180
 tctttttctt tttactgtta ttgcgaaacc aatgccacct cgctcatttc ttgtggaaac 240
 gttgtcccta ttcacaaaga gaaccaaggc ttatgacgct tcgagaaata gctctagctt 300
 tgtgtagaga agactacgaa accgcatttt ccttgtgtcg aaataccgat tg 352

<210> 2037
 <211> 430
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-040-Q1-E1-G4
 <400> 2037
 aggaaatggt caacttgcct tcgttactaa attcgttctt tgctgagggt tttgaattct 60
 cgctgtgtga cgatgcaagg gagaagatat tgaactttga ggtgacagac tctcatggca 120
 tatcttttcg agaccgaata tctattttgt atgtgactcc attgacaaga gaggacgcga 180
 aagctaatag cgctccagat tttgtagatt ttcttacttt tgacaacttt cctgggttaca 240
 tgaagtctta tatagatgta tggcgaaacg tacgaagcag gcgcagctca tcaagtcgaa 300
 gtctgtcaa acggataaaa tttgaaggaa gttgagagtt gaatgtcgac gtatggatgg 360
 ccctaccgt cacaacggtc cttatttttg taaaagaacg actcacctat tatatatagt 420
 ggaataaaca 430

<210> 2038
 <211> 297
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-040-Q1-E1-G5
 <400> 2038

acccacgctg cagcccacgc gtccgcccac gcgtccgccc acgcgtccgc ccacgcgtct 60
 gcccacgctg ccggaagag gcaaatacgg gaaagcagta aaagaagaca gagacacgaa 120
 aaaacttagt atcaggaata aaagaggagg tagatgagga atgaaagatg aaggaattaa 180
 gagttagaga tggagtcata tgaacgaagg caggcttgta gcttaataag acactttatc 240
 ctgctactgt tattgctaata gtcataccaa ctgctcatg tcttgaggag acgttgt 297

<210> 2039
 <211> 406
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-040-Q1-E1-G9
 <400> 2039

gggccgagcc acgcgtccaa tttcattcat cgttgctcat tcttggtgca gatatgacag 60
 gtcgtggtaa aggtggtaaa ggtttaagaa aaggagggtgc aaagcgctcat cgcaaagtct 120
 tgcgagacaa tatccaagga ataaccaaac cagctatccg tcgtttggcg agaagagggtg 180
 gagtgaaaag aatctcagga cttatctatg aagaaacacg aaatgtcctt cgtgttttct 240
 tggaaagtgt tattcgtgat gcagttactt atacggagca tgctcgtcgc aagacggtaa 300
 ctgctatgga tgcgtatat gctctgaaac gtcaaggccg taccctttac ggatttggag 360
 gataaagcct gcttgaacaa aggggtgtttc tcaacacctt tcatcg 406

<210> 2040
 <211> 127
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-040-Q1-E1-H11
 <400> 2040

gcgcattgtc agttgcgtgt ttcagttttt cgggtgccgtg cagcgtctcg ggtcatttct 60
 tcgcattcgt taacagttca gcaactctgg ttgcagaaga cagcgtgggt ggtataagcg 120
 atccccac 127

<210> 2041
 <211> 376

<212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-040-Q1-E1-H12

<400> 2041

atattatcgt gaaccaaatt catttatata tcattggaga atgagtccca aaaaggaaac 60
 accgcatact cccataggag gctatgcaaa agctgtactt gatagcattg ttgctctgaa 120
 ggagaggaat gggtcctctc cacaggccat cataaaatat gtcaaggctc acaatccgca 180
 gcttccggaa gacaaactta aacttcaagt aaagtttagct ttgcgtcggt tgttaaagca 240
 gaagcttatt gagaagggtga aagcttcgta taagattgct agcaagagta gtagagttaa 300
 gaaagcccca aaagaacaaa aagcgaagcg agttgcgaaa acggttcaaa agaaacgagc 360
 gaacgatttg caagag 376

<210> 2042
 <211> 212
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-040-Q1-E1-H4

<400> 2042

atggtagaca ctaagcttaa ggacggtgct attgctgccc ttggacttg ccgccaattt 60
 ctctatacag ttgtgttagc attttcagca acagtaattg gacttgatgg acggcacgca 120
 gataacatat ggaacgatgc cccatattat catggaaaag tggatgaactt ttgtgcatat 180
 tcggcttcgt ctgtttttga acgtggcaac ca 212

<210> 2043
 <211> 188
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-040-Q1-E1-H8

<400> 2043

ccacgcgtcc gccacgcgt ccgcccacgc gtccgaaaaa aaaaaaaaaa aaaaaaaaaa 60
 aaaaagaaaa aaaaaaaaga aaaaaaaaaa aataaattta aatttaaggg gaagatgaat 120
 ataatagagt gatttataaa gggtttaag ggtggttttt ttttgagggt ctgtgtttga 180

gttttttt

188

<210> 2044
<211> 201
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-040-Q1-E1-H9

<400> 2044

tccgggttgt tgtttcgttg ctgacgatat gcaccgtttt gttttcgtaa gtggttcacc 60
gacgcttcat atattcgtag attggaatga attataatca gcgaaggtct ccttgatact 120
ttgttctggt gtgtgtgttc tctatagtac taattttctg ttttactatg aaggacgctc 180
ttttagttcg gcctaattcc t 201

<210> 2045
<211> 362
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-041-Q1-E1-A1

<400> 2045

agattttgttt acgagagaaa gctgtacaca gaggagagtg tattgcggcg tcatagtaga 60
aatcctactg gcgtatttga agtgatagag acgaacgacg ggaagatatg tgccgtattg 120
aaaaccgaca catgtacact acgagagagg agacccatat tgtggtgaga taatggacga 180
tgaagtacta agcaagatga tatggtatct gcagtagaac atatgaaagc agcagcaccg 240
gctgttttagc aaaaacacag cactctgcag aaaagagatg atgtatagta tatagtgtgc 300
cggctgccat atagtagaga agatatcgat gaatgtgaac gcgagtaaaa tatggtgtat 360
ag 362

<210> 2046
<211> 407
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-041-Q1-E1-A11

<400> 2046

gtccacggat ccatccaagg atccatgggc ggacgcgtgg gcggacgcgt gggcttcctt 60
 ggtagcgttag tgaagaagac cttcgtgaaa ctttttccaa atatggagaa gttgttgatg 120
 caagggttgt tgttgaacgt gaaactggtc gttcccgtgg ttttggttcc gtatcctatg 180
 cagaagggtc ctccgtagac gaatgcattg ccgcactgga tggcaaggat atgcaaggac 240
 gcactattcg tgtgaacaag gcaatgtctc gtgaacaacg cgagagtgga ggagactttc 300
 gtcgcggtgg tcgtggacga tacggaggtt ttcgttccgg tccttatgag agacgtgaac 360
 gtgactctga tcgtagaaga gatcatgaca ggagagataa cggccat 407

<210> 2047
 <211> 402
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-041-Q1-E1-A12
 <400> 2047

aaggaanaca cagtaaata ggcgagaaa cataggaagt gaaacggatt aggaacccgt 60
 gtagtctatg cagtaaaaga aagaatgagt aagaaaaaag ggagtcattc caccagggga 120
 gtaaaggcgc aagaaagaaa cccaaagcaa ttgacgggaa tcggaaaaag ggggtgatca 180
 cgtaaattaa tccgataaac cgagaacctt acctctccaa gaaggtgttg cacggctgtc 240
 gaaagaacgt gctgtgaagt gagagaacgt acgagaaagc caagtgagga aaagaaggca 300
 agtagagggc ggcccagagaa aggaaggggc gtaagacgtg atacagagta ggaagaaaag 360
 agaagagagc tagaaaggag gtaaaagaag agtaaaagga ct 402

<210> 2048
 <211> 386
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-041-Q1-E1-A2
 <400> 2048

gtccaagtgg gacaacgaga ggcagagata cccctcgaag aatgtctcgc tcacgagact 60
 gtgacatctt cacatcatat aaaagatgat agcccggaaa caaagccaaa ccgctttgca 120

attactggcc acacatagga cgaaatggct acagagctaa gcattgcttg atgacgacaa 180
 caaccggctg cacacgaaaa gattacttac ttccacggtc tttggtaacc ctagacattt 240
 tatatgggtc cttgcatcat ttgctaccat gggatgaatt ctgtatggta attaccagtc 300
 tttgataagt ggtgctggta tttatatgcc agttgaccta cacattgac agactagaga 360
 taacatgggtt actggcttta tgccac 386

<210> 2049
 <211> 433
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-041-Q1-E1-A5
 <400> 2049

gggccgaccc aaacgtccaa cccctcctg gtgctgctgc agctatagaa gaagcgatca 60
 aagccgaagt tggaattatt gtctgtatta ccgaaggaat tcgccaaaag gatatgggtc 120
 gagtgaagac tcttttgaat gaaagcacga aatctcgctt aattggcccc aactgcccag 180
 gcattttgaa gcctagttag tgtaacattg gtattatacc aggttatatt cattcaacgg 240
 gttgtattgg agttgtttca cgttcgggca tgcttacata tgaagctgtg gatcagacta 300
 cgagacatca acttggtcag agcattgtta tcggaatagg tggatgatccg tttcatggaa 360
 catcctttat ggactgtttt gatatgtatt tgaacgattc gcatacgaag ggcacgtta 420
 tgattggcga gat 433

<210> 2050
 <211> 404
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-041-Q1-E1-A7
 <400> 2050

gtccacccac ggcgtccgaag atgcaaagt ctttgaaaga aatagccgac tatatgggtga 60
 cacctggaaa aggtatttta gcatctgatg aacctcccga gttgttagaa cccaagtttc 120
 gagctttggg agtggagaac aatgcagaaa cgagaaggac gtggcgtaga atattatatg 180
 gaaccaaagg attggagcaa tatgttcag ctgctattct gcatagtga acttttgaac 240

aacaagattc atccagtggg aaacgttttg tagatgtgtt atcagacaaa ggtatattac 300
 ctggtatcac ggtggatcaa ggtttcgata tattacctgg tacctcncaa ganacattca 360
 cgctaggatt ggatactttg agcaatcgat gtgaganata tcag 404

<210> 2051
 <211> 264
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-041-Q1-E1-A9
 <400> 2051

aacagttgta cattcaacat catcaaatgc caaagggagg aaagaaagat tcttcaaaga 60
 aagaagccac aagtaaacct gcagcagcag atgctacaaa gacgacagaa aagtctggtc 120
 cggaagccaa gttgaaggga actggtgcaa agaaacaata aaaagttgac tatgcatgtg 180
 cagtctgttt atgttttgtg agttctgttt gatagtttcc agctattctt ttggtagtga 240
 ataaagagaa aattttttat attt 264

<210> 2052
 <211> 420
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-041-Q1-E1-B10
 <400> 2052

acccttcgaa tgataatctt atggaaccaa aactagatat tgcaacggaa caagagactc 60
 ctttaaccag cacggatgta ctattgcttg tatcgctgaa ccaacaggaa aacaagactc 120
 tccaaaactg ggcgcatatc gagtcttgta aacaaaaacg atattttgaa cctgaaaccg 180
 tagaagatat cgaagtgatt gtagaacaat gtcgctcgaa taattggaaa ctaagagtat 240
 ttggagcagg tcattctcca aataatatag ctatgaccaa cgattgcata gttagttaa 300
 aaagaatgaa tagaattgaa aacattgatg aagaacaaaa gacggtgact gcgcaagggtg 360
 gcacgcttat caagcaactc aatcaagagc tggccaaaca caacttgggc ttatccaatt 420

<210> 2053
 <211> 280

<212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-041-Q1-E1-B11
 <400> 2053
 gtggaagaag atggtcaaag agatgcaaca accggttgct tctcaagctt tacgtgcata 60
 tgtccctggc aagtttactc gttccgtact aagtatcttg tgcattataa gtgcaggtgt 120
 tattggtgct gtgggagttg tttgttttat attctgtagt atcaatccga gaaacgttat 180
 catcaatgta tatctcatta tatttgcagt gttgataatc ctttccgagt tgggtttcag 240
 ttttctgttg aagcggtttg cgttttttaga tacgtttttt 280

<210> 2054
 <211> 340
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-041-Q1-E1-B4
 <400> 2054
 cgcgtccgac aaaaaaaaaa tcaataaaaa taaaaacata atcaaggctg acgggctaaa 60
 agaggcagac tttcataggg tcaatgctac gtgcccggtc atgcaaagtg aaagctcttt 120
 taaagtgatc gggaatttca tttcaacggc cgctccttga aaatgccggg attgggaaaa 180
 gttagccctt tgcaaggta agccccttcg ccaacatggc ccattcccaa actggtctaa 240
 tagtttcccc gttctcaaaa tttgcccttc ccaactgttg atcggacaga gtcgattaat 300
 gggacattcc cgttttcggg cctttaagct acgccccttt 340

<210> 2055
 <211> 409
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-041-Q1-E1-B5
 <400> 2055
 ctttcgcata gtcgggaatg ggtcctcggc gtcgtatatc gatactagtt gactgccttc 60
 cactggccca aggtttggca angaacccca gaacctagat taagttactt taaaagaaac 120

ttgcaaagta ataatttctt ttcgcaaaat atctgtggtc acaatggacc acatccttgt 180
 gttttgcccc tcaactgtttt ccacattggt tcaatggcgt cacacttggt acaagtgacc 240
 cgtaagggtc gtttcttgaa ctgcacttga acccaacgcg atttaaattg acgggatttg 300
 gaaaccacgg taagttattt gtcccataag caaaacgtcc agatgattat tggtcgttgc 360
 tactcctgga taaaacatga ggaaaactac accgccactg caaaggcat 409

<210> 2056
 <211> 353
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-041-Q1-E1-B9
 <400> 2056

tgttgtgcta tacccttttg gaggaagctc atggaaggaa aggatcgtcc aagtttatgg 60
 aaaaaagctt tgaaccgtga tactgtgtgg gaaaaggacg agatattaga tgtgctgttt 120
 tggatccgcc acgtggtagc tctgttgata ggttgtctat tcggccttct caaattaact 180
 ggcttaccag gctttattct ttacatatct atttggttca ctatttctca ggcgtaagtt 240
 tcatgccttg tagaaagaaa gaataacact actcgttctt ctttctagtt atttcaagtg 300
 gtttttagat ttagacgaag acgactttgg tggttgggga accgtacaac aag 353

<210> 2057
 <211> 400
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-041-Q1-E1-C11
 <400> 2057

gtggaaaact ggccttttat caattcttcc ttcttaatat cacaacaacc taatagggag 60
 atatagagtc acgcaaatac gtgttgcaaa ttgggaagat attcaagaaa aaaaagttgg 120
 gagagcgtgc gcaacgcttc ggctccgctt cctttaggaa tgaagaatga aactcgcgat 180
 gaacatacaa gtactccaac gaccaccgca gaggttccta ccaaccgcca acctatcata 240
 caccgacgtt ttcagacggc gcctttggaa gatgacgcca tgatggaaga cgacgatcaa 300
 gtcgtttcta ctagtatctc ttcttgata tagcaacaaa gcgctgttgg acaaaagtcg 360

gatgcaactc ccaagttgct ttccctcggt gtcggtattt

400

<210> 2058

<211> 409

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-041-Q1-E1-C12

<400> 2058

ctgcctttta gcattcttct tcttatatca gacaacctat aggagataag agtcacgaaa 60

tactttgcaa attggaagat attcagaaaa aaaagttgga gagcgtgcg aacgcttcgg 120

ctccgcttcc tttaggaatg aagaatgaaa ctgcgatga acatacaagt actccaacga 180

ccaccgcaga gggttcctacc aaccgccaac ctatcataca cgaccgtttt cagacggcgc 240

ctttggaaga tgacgccatg atggaagacg acgatcaagt cgtttctact agtatctctt 300

cttgatata gcaacaaagc gctggttgac acaagtcgga tgcaactccc aagttgcttt 360

ccctcggtgt cgttatttct ctatctcttc cgctgcattg ttttcttga 409

<210> 2059

<211> 402

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-041-Q1-E1-C3

<400> 2059

aagcttaaac aaactagtaa gtcggttga atgttgcttt ctggagcgaa gtcgtcaaga 60

agggtccaaa atgggcacca tcttctccca agtagcacia tcctttgcaa aggatatgtt 120

ctatctcaag tcgcaagggtg aagaatggct agatgctgtg ttgcaagatt attcattcct 180

tgctcgtgac gcccgcacggg ttttaggtga acgtttacaa gcatacgaat cttatgaaaa 240

ggctctatca gaacacaaatg aaaggatgag aaaactggaa aatggtcata tgtcctcttc 300

cacgtcctcg caacacacgg aaaaccccaa ccacggtgct acttctagta gtaagcagtt 360

gaatgagtg cgtcagttgt atgaacgagc ggcttatttg ac 402

<210> 2060

<211> 409

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-041-Q1-E1-C9

<400> 2060

accacgcgtc cgccacgcg tccgggttgc tcaaggtgtg aaatggcagt agttgaagat 60
aacagagtct ttgttggtgg tcttccttgg tcagttagtg aagaagacct tcgtgaaact 120
ttttccaaat atggagaagt tgttgatgca agggttgttg ttgaacgtga aactggtcgt 180
tcccgtaggt ttggtttcgt atcctatgca gaaggttcct ccgtagacga atgcattgcc 240
gcactggatg gcaaggatat gcaaggacgc actattcgtg tgaacaaggc aatgtctcgt 300
gaacaacgcg agagtggagg agactttcgt cgcgggtggc gtggaagata cggaggtttt 360
cgttccggtc cttatgagag acgtgaacgt gactctgac gtagaagag 409

<210> 2061

<211> 429

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-041-Q1-E1-D10

<400> 2061

gttgagattt tgtggatgag caaccacttg tcgttgcaag aaaccaagtc gcattttcgt 60
aaccgagtea atggactgat cgagcatatt gcgagtagct tgagggtata aagagagaga 120
gaatagttgg aagttttgtc ttttgaaata cataggactt gttgacgacag ggagctgaac 180
ccagtccgtg gaaagactat gcaggggacc ttgagttgag actcgctgta taaagtattt 240
gtagggattt tgaagagctt ataaccttgt cgtttgaaat acaagtgttg acaactcaag 300
gcaatctacc ccaaataatg tcggaaatag accacataga gacgtctgtg cagaaccgca 360
taggagagat taacgatgca ctggaaaaaa cgggtatgca cttgtctttt cacgtctgca 420
acgactcaa 429

<210> 2062

<211> 289

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-041-Q1-E1-D12

<400> 2062

tggaacaga ggtggtattg ccatggcgaa acatcacctt gaccttatta tgtgtcgaaa 60
gcaacctgga atagccgtcg gaagactttg tgaaaagtgt aagtgttatc ttctctttat 120
tttgttctcc tcatacttgc aaggtgacgg caaatgtgtc atatgtgact cttacgttcg 180
gccttgtacc ccggttcgca tatgtgacga atgcaactac ggctcatttc agggacgttg 240
tgtgatttgt ggtggtgtcg gtgtcccaga tgcttattag tgtagagag 289

<210> 2063

<211> 447

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-041-Q1-E1-D2

<400> 2063

attcaagggc cgnacgacgc gtccgggaca aagcaacaac gcgagtgggt gataaagcaa 60
ctagccaaat atggtttaga acacgtcgac gagttggttg actatctttt acagtgtgaa 120
gataaagtta ttcttaagga ataccttggt ggtttattac ggaatgatga ataggccgaa 180
gcacttggtc aagaattggt tgccaaacag gaagctacca acgaacaaac agatggaaaa 240
ggaaaagaca caccaaggta caataagaaa gttcacaag gtcgcaaaaa atcgtatggt 300
ccgagcaaag atagttcttc cacggagaat gataacaagg ctagcacacc ttttatgcga 360
aattgtttgt gctgtgggaa ggtaatcatg gaatatatca gtcgtttag tttttgtggt 420
tggtcaccgg aagaagatgc tgagaaa 447

<210> 2064

<211> 402

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-041-Q1-E1-D3

<400> 2064

cgcacgcgtc caaagaagat caaacagttg ccaaatgtat ttgggacact ttgcatatag 60
aaccactcaa tgttcctgag ttcaattctg gtcaaccagg atatgtaatt ccggtcaccc 120
gagacagtat gattgcattt catcaaattg aaggaatgaa ggatgcacag aacttgtttc 180

gaagatttta cttggataag aatcgatttg actcgggagg agatgtcgtt ccgtaaagaa 240
aaccaactct actcactcac atgtctatga cgttgccctcg ccggaaacca agtcattcgg 300
atcaaaatat attcctttta cagtaccatc gatacgagca agtatctgat gagtcacttt 360
catagcgtcc acgacgaaaa tatgatcacc ttgtttcact tg 402

<210> 2065
<211> 457
<212> DNA
<213> Cyanidium caldarium
<223> unsure at all n locations
<223> Clone ID: LIB190 041-Q1-E1-D4
<400> 2065

attcaagggg tcgacgacgc gtccgcagct tacaagttat tggagattt cttgcagaac 60
gaatatagtc ctcattgtag aagaaccgct ggcattgtcg attggaacga ttcaaaagcc 120
atztatgaag gagcaataga atattataca tctttgtctt ttacagctca agagttgcac 180
tctattggga agaaagaagt gaaaagaata tcggaagaaa tcgatcaagt acgagaacgc 240
ttacaacaaa cacaaggatc acttgcaccc tttattgccc aattacgaca aaatccacaa 300
ctctttgcca aagactcgca agatattata gaaacatata agaacatact ggataagatt 360
ggcaccaatg tttcagatta ctttgccaaa cttcccagag cacgattgga actaaaacct 420
atcgagtcac atcgagaana gtccgctcca cccgcac 457

<210> 2066
<211> 427
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-041-Q1-E1-D7
<400> 2066

acggacgcgt gggcggacgc gtgggcggac gcgtgggttt tcaaccgttg ttgttctgac 60
aatgaagatt caattgttta tataatagcg atacaagggt gcgataaacg acgaatttca 120
ggctctaagc tatccatgtt tttgcattgg cgtgaaaacc ttactttctca agtgacaaat 180
gtatctggac gactcggaaa acagtattag tggttctaagc gtcactataa gacgcgcgcc 240

gatcattcga ttttggcttg caagttgaat ttgtctcacc gagaaactcc ttcaggctta 300
 tgcttccatt tgaacacttg ctatatctgg caacgtctga ataactgggt ttcacagtaa 360
 agaaggggtgc aagcttgatt tgatgagatg cataccattg ttgccgctgg acctgtagct 420
 ctccaat 427

<210> 2067
 <211> 413
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-041-Q1-E1-D8
 <400> 2067

agtacccatg agaagtcagc tacttcaact gtccaaagtg tttcaaactt ttacagaaaa 60
 acaattttca tctagcgtet ccaagttcca gcttcccgat ctaccctatg actatggcga 120
 gttggaacct tacatcagtg cagaaatcat gagacttcac caccaaaaac accaccaaac 180
 ctatgtcaac aacttgaatg tcgcattgga aaagatccac aaggcagaag aagctggtaa 240
 cgtgggtgat atgatcgcg tgcaaaagat gctcaaattt aatggaggag gtcacgtcaa 300
 tcactccatt ctttggcaca acttggctcc cgtgaataaa gggggaggta ctgccccga 360
 tggagcattc ttaaaagcag tggaaaaaga attcggctca ttggacgctc tca 413

<210> 2068
 <211> 350
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-041-Q1-E1-D9
 <400> 2068

tcgttttctt gtgggatggt ttgtctcctc atgcttgcg cgctgctggc attggtcatt 60
 cggttggttc gtgtgccttt tctgtctggc cactcgcttg ttctgcatct ctgtctttta 120
 cagcgcacga gttggctcta ttgggaagag agaagtgtat cgaatatcgg ctgaaatcga 180
 tgctgtacga gaacgcttac aacaaacaca aggatcactt gcacccctta ttgcccaatt 240
 aggagaatct ccacaactct ttgccaaaga ctctcaccat attagacaga tatctgatac 300
 catattggat aagattggca ccaatgtttc agattacttt gccacacttc 350

<210> 2069
 <211> 419
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-041-Q1-E1-E10

<400> 2069

tgaactttgt tttggaactg tttttttggg gtttcactcg tgtgttttgt ctttttaaaa 60
 ctcgaagaag actattttatt tcttggttatg tttgagaggt gtttctagag tgtgttttgt 120
 ggacttggtg tactcctgtc ttgggtggtg gtgaatggct ctagtgacaa agaggggtgt 180
 cactttcccg ccattctcca cagcttcaac taccaacctg tatacgcaca caactacaca 240
 actatattac tacagagtcg tgggtgtaaaa cgacaagttg aatggttgaa aaggattggt 300
 gaaaagtggg agactagtga gagagagcac ttgaaaactt gtatatttgt accccctagc 360
 aactatttcc tcttgaagag attgcaagtt tgggtgtagta gacaagagtt gcaagtgtc 419

<210> 2070
 <211> 335
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-041-Q1-E1-E12

<400> 2070

gtaaaagaag aaagagaaag gaaaaaactg agtaccagga agaaaagagg gagtagatga 60
 ggaaagaaag atcaaggaag taagagtaag agaaggagta atgtgaatga aagcaggaaa 120
 gtatttgaag aagagagtgt aaagcgcgta ccttttgcac aatgtcccag cgagtgaag 180
 aggaagcata aagaaagaaa aagaagtagc caggtaagac ccgaagctag ttgatcttat 240
 gctgtccaag cgaagtaagg ctgaaccagt atctgtggaa aaagatttgg aagttaaggc 300
 aaaaacacgt gccagcagca gcggtaaaac gtgtg 335

<210> 2071
 <211> 328
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-041-Q1-E1-E4

<400> 2071

aaccacgagt ccgcccacgc gtccgccagg aattttcatt ggtttttatg gacgttttgt 60
tactattgct tggttctatg ccatgtttat gatgcctgaa accaaagata agactttgga 120
agagattgat gctttgtttt ccatgtcgat gcctgattta gcgaaacata attgggataa 180
tgtgaagaag acagtggatg atctcttgca ttttacgttg agagaagttt ggaaggttta 240
caagtgagcg atgattgtta ttgtttgatt ttttgagtat tttacttggt tggtaacaat 300
aaaagcataa atgcgtgcat aacatttc 328

<210> 2072

<211> 390

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-041-Q1-E1-E8

<400> 2072

acccacgcgt ccgcccacgc gtccgggaaa tgagtatttt cgcaataaac agtacaagga 60
ggcatgcgag tgttatactg ttgctcttag taaagaaatg agtacagaag accgggcagc 120
gtgttttgcg aatagagctg cagcaaagct aaagttggag gactatgaag gggcttttga 180
ggattgttcc gaagctttga gcttggatga aaactattgg aaagcaaagt accgacgaaa 240
ggaatgctat ttgaaactgg gtcgttatga ggaagctttg aaagatgcaa aggactaag 300
agaagcacia cagatatctt cggaagaagt acaacatata gaaaagtga aggagcgaga 360
cgatgaaaga cgtaaagaag aagctattgc 390

<210> 2073

<211> 409

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-041-Q1-E1-E9

<400> 2073

cattttgtag ttatgaaagg aataacaaaa tgctctctta ttgttctcat agttaccact 60
cttatggtaa ccacaacttc ggcagttttg ccgatgaatg acgaactggc tagagaaata 120
cgtagagctc ttcaatggaa ctctgaattc ctaagacaat tctcgacagg attcccgta 180

gctaccgagg ctccgatacc aacagagata ccgataccaa cggagatacc aattccaacg 240
 gtgacaccaa ctccctgcgcc tactgctacg tccgtttcga ccacttcagc ggtgccaact 300
 ctggtaggaa cttcaagtaa cccaatagtg actgtaatac caacagctcc accttccgga 360
 tttcctcttc cttctggctc gattcgaaaa gccttctcga aagctgaac 409

<210> 2074
 <211> 311
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-041-Q1-E1-F10
 <400> 2074

gcaaaccxaa taatggaatg ggtgggattg caccggccaa agaaccgggt tcaaccaacc 60
 gttgcaaaat atactttgga tactttgttg gatactgtgc ctgcttctgt tgccggcatt 120
 gcctttcttt cgggagggtca aacggaagag gaagcaacga ccattttgca agctattcgt 180
 gaaagagcaa aggcaactgg aagagcacct tggccattga cattttgtta tggctcgtgca 240
 cttcaagcta cgagtttaca aacgtggcaa gggaaagcag aaaatgtgga gaaagcaaga 300
 gaacaatttt t 311

<210> 2075
 <211> 421
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-041-Q1-E1-F12
 <400> 2075

ttatggtgca aaaaactttg ctgcaatatt gcaattgcaa ttagaaaaaa taaagggtca 60
 aaactctttg gactcggctt tgctttgtat caaaaccggc aatgaanaga atccgagact 120
 gtcaagttac ccctttttgt cggtagagag tgacggggca gtaccaagac gccatgacta 180
 cgcactcgggt ggcacataat agagaaagac taggggcaaag gactgatggt gattcgataa 240
 agagtaaaga ttcgtggcac tggtagcgta ccaaccgctg gctcgtcatt tacatagcca 300
 gctggtcgtt gcattgtcac gtgcgaagtg agcttcctta gaagaagggt accaagccat 360
 cttggaatca tccagatttt atatcgattg gtcattcaaa ctttttaaaa aaagtaacgc 420

a

421

<210> 2076
<211> 398
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-041-Q1-E1-G10

<400> 2076

gccttactga aaaccgacac aggtactcaa ggaaaaagga aaccaatatt aaggtgagag 60
aatggacgat aaggaactat gcaaaaggat atggatatctg cggtagaaca tatgaaagaa 120
gcagcaccga ctgttttagca caaacacatc actctgcaga aaagagaaaa tgtaaagtat 180
acagtgtgcg gcctgccaaa tagtagagaa gaaatcgatg aaagtgaaag cgagtaaaag 240
atgaggtata gagaatggcg gtcctaactg taaggatcca aaagtagcga agtaaataaa 300
cgtttgaaag gcgtccagta tgaaaggaga aacgagtgtg gcactgtcta ctcgtccaac 360
tcagcgaaac agcaataact gtgaaaatgc agtaaact 398

<210> 2077
<211> 429
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-041-Q1-E1-G11

<400> 2077

accacgcgtc cgcccacgcg tccgcctttt tgtactcctt caccaacttc taggtacaag 60
tctccgctta ggagaggtga ttggccagaa agctgggagt ctgctcgaag tcttggcgct 120
agttcgggtcc aaccaaaga ctcagaaaca gttgtatctc gggatgaagca tatgatttca 180
atggttattc aaagaagcac ttgtctttct ctagcgactt tggataaatg gctgtcttta 240
ttgtgtgatt ttatagaatt caatgctgac gagtatctac ttttcctcgt aatgctaagg 300
aagtatttaa tatccaacgg tcagttgcag agccttgaag atcacgtgag accacagaaa 360
tgggagcgcg ttcttgctgt ttgtgcatac tttgtgtcc tcttatcaga agagtttact 420
ggccgaatc 429

<210> 2078
 <211> 398
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-041-Q1-E1-G12

 <400> 2078

 ggagtagaaa agagctttaa aggatttcac gggaaaatct tgcaatgaaa aaaacggttg 60
 gccactgaat cctggaaacg gagcttttta cggcccaaag attgatgtga aaatccacaa 120
 ttccttacag aggaaacatc agagcgcaac gattcagctg gactttcaac ttcccattcg 180
 ctttgatttg gtgtatcacg cacctagtcg tccgaaacaa gattcttctc ccaactgagga 240
 agaagagcct gaactgcacc gtccggtgat tattcatcga gctatattgg gttcgggtgga 300
 gaagtttttg ggaatttata cagaacattg tgctggcaaa tggccttttt ggttgagtcc 360
 acgtcaagtg atcgtcaatc ctgtaagtga gaaatata 398

<210> 2079
 <211> 422
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-041-Q1-E1-G8

 <400> 2079

 cacgcgtccg cccacgcgtc cgaacctcaa gtggatcatt ccacgttggt aaagatagac 60
 ttgtctcaag gcagctttaa agtactccaa gactgtgaca aagatttaga atgtgatcat 120
 aataccaagt ttcagttgga acttattcag tatggtctct tttcacctgg tttttggacg 180
 agagaaaatg ttctgctctt ctatttggag ctctgtgcag gtgtattcat aagggacact 240
 ctctaccttt tctacaacaa aggtgaagaa catttgtttg cgagtttaat gctgttggtg 300
 gagacacaag tctcactgta tgcagacata aaaacaaact gggagaaacg acactttatc 360
 gttggcctca tcgtcaggtc tttgtgtgag gaatatcaac gacagtattc agagctatgt 420
 tc 422

<210> 2080
 <211> 391
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-041-Q1-E1-H10

<400> 2080

gtccaggtct ccgggtcgat ccaaggacgc gatgggtttt ctccccaaaa gatgtccaaa 60
gcatttggtta tcttagtgag acttgagaaa ctatgcgtga atcatagcaa gtattgttct 120
cgtattcact atgaccatca gatggataaa actcgatatg gttattattc catatttcgt 180
cgtctatttt ctactcaaaa acaacctttg gaccatggag acacaactcc cataaagtca 240
tcttctgctt tgtttgctgc accacagttg gatagtgaag gaaccaaagt ctctcctttg 300
tataaattgg gaaaattgaa tcacattgct attgtagttc aagacgtgca agacgcagca 360
gagttgtata gaacagtgtg ggaagcagat g 391

<210> 2081

<211> 96

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-041-Q1-E1-H11

<400> 2081

ccacgcgtcc gaccacgcgt ccgcccacgc gtcagtcctat gcgtcaggtg tctcgtgcgt 60
ggccgcgttg gtcgactcgg tccgtcagtc acacat 96

<210> 2082

<211> 124

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-041-Q1-E1-H12

<400> 2082

tttacagaca tttagagggtt atgcctcgtc cttctcctcc tgaatcttct atatcgacga 60
ccattacggg aaaagcgatt tgtagttagg ttctgcgct cttagaggac ggagatcgcg 120
tatt 124

<210> 2083

<211> 430

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-041-Q1-E1-H2

<400> 2083

ggtcgaccga cccgtccgag tagaaaaaag agagtgtgaag gcggcgatcat aatagaaatc 60
cgaaaggagt agaagaaaag agagagaaga aagaaaagaa gagaaaagcc gtactgaaga 120
ccgacacagg tactcgagga gaaaggagac ccaaattaag gtgagagaat ggacgataag 180
gaactacgca aaaggatatg gtatctgcgg tagaacatat gaaagaagca gcaccgactg 240
tttagcaaaa acacagcact ctgcagaaaa gagaaaatgt aaagtataga gtgtgcggcc 300
tgccaaatag tagagaagaa atcgatgaaa gtgaaagcga gtaaaagatg aggtatagag 360
aatggcggtc ctaactgtaa ggattcaaag gtagcgaagt aaatagacgt ttgaaaggcg 420
tccagtatga 430

<210> 2084

<211> 292

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-041-Q1-E1-H3

<400> 2084

acgcacgcgt ccaccacga gtccggtaag gcggcgctct actagaaatc cgaacggagt 60
acaagaggac atagagaaga gagaaaataa cagacatgcc gtactgacta ccgacacagg 120
tactcaagga gacaggacac ccacttcaat gtgtgagatt ggatcgatca ggaagtaagc 180
acacggatat ggtacctccg ttgacactct gactgaaaca gcacctactg tttagtaaga 240
acgcaccaat cttctacca gagataccgt atcgatatata gtgtgcgtcc tg 292

<210> 2085

<211> 444

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-041-Q1-E1-H4

<400> 2085

gtctagggtc gacggaccgg tcaagaaaca aaaatatattg tcgtttttgg cgccttttgt 60
gtatcagcgt tttctcgtgt gttgttttac ttggaacgct ctgttgattg aatgttttca 120

ttctaatttc tttgtagtcg aaaccattcg agggtttgtt acactgactg ttggtgcccc 180
 tgttttagct cttgccgcta gtctttcgtt tgcgcattat tatcgacgca aaagtatgcc 240
 gatttttgca aaggaagaca catttttcga gtgatggaac aaggtttgcg aaaataaaga 300
 atagttgtgt tattcgttgg aaaaaaaaaa aaaaaaaaca aaaaaaaaaa aaaaaaaaaa 360
 aaaaaaaaaa acacaaaaaa aaacaaacaa aaaaaaaaaa atttaaaccc caaaaaaaaaa 420
 ccatttaaaa aaaagggcgg cccc 444

<210> 2086
 <211> 427
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-041-Q1-E1-H5
 <400> 2086

agtctttgaa gtgaaagcca ctgcaggtga tactcacttg ggaggagagg actttgataa 60
 tagactagtt gactatcttg ccaaggagtt taagcgcaag tataacaagg atatcacatc 120
 taaccatcgt gccatgagaa gacttcgaac ggcattgtgag agagcaaaga ggactctttc 180
 aagtgccact caaactacga ttgaagtaga ttctttgtat gaaggatcgc acttctacac 240
 cagtattacc agagcgaagt ttgaggactt gtgcatggac ttgttccgga aatgcataga 300
 ccccgtaggag agagtcttta aggactctgg attgtccaag agtcagattc atgatgttgt 360
 gctagttgga ggctcaactc gtattccaaa ggttcagcag ctgctgcaag actttttcaa 420
 cggcaag 427

<210> 2087
 <211> 402
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-041-Q1-E1-H6
 <400> 2087

agttgttttag tcgaagaatg gcaaaaggag aggcaggagc ttcaagggtca ggtggagcag 60
 ctaagaaaaa gaagtgggtca aagggaaaag taagtgttgg aatgaattga ctgtggaaaa 120
 ttaatattcct gcaaaggtaa aagaaaaagt atccaacacg gtgttcttag atgaagagac 180

ctacgaaaag ttgtacaagg aagttcccaa gtacaagcta ataactcctg ctattgtttc 240
 ggaacgtctt cacgtaaacg gtagtttggc aagacaggct atcagagagc tgttggcaaa 300
 gggtcagatt tctcttgtgt cgtcacagcg aggcaactctt atatgctcca gagcgggaaac 360
 ggcgggcatga ctttttgctt tgaaataaaa gcactttaga ac 402

<210> 2088
 <211> 223
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-041-Q1-E1-H7
 <400> 2088

gaaaccactg caggtgatac tcacttgtga agagacgact ttgatactag actacttgac 60
 tatcttgcca aggaatttaa gcgctagtat aacaaggata tcacatcttt acatcctgcc 120
 atgagaacac ttctatcggc atttgagaca ccaaagacga ctctttcaat tgccactcaa 180
 actacgaatg aactatatctc tttgtattaa tggctctgac ttc 223

<210> 2089
 <211> 411
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-042-Q1-E1-A3
 <400> 2089

gtccagggac gcgtcagaca ttctgagtgc gctgatgagt cgatgaacaa gcttcagttg 60
 ctattcgtaa tcagtcaagc tgtttcaata gcatggcaga gagaatagat caggttatac 120
 tccgagaaca aatcagttgc atgaggaact ttgggaacca tgtggcatga acgagattct 180
 gcacagtaga gcgcgtactt tactcgtgaa gatgagcagg cagtacaaag gtagcatca 240
 aaacttcggc atcaagttgt gccatcagac gacgtattcg cccaacacag ataaggcgtg 300
 gcagagatct tacagttcca ctgtgtcaag tctaataaaa ctttgagtga agatattgtc 360
 cgtttctttc attacttcat ccgtgattga tgtttagctg cagttcaact a 411

<210> 2090
 <211> 226

<212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-042-Q1-E1-A5
 <400> 2090
 ccgggccgac ccacacgtcc agggctcgca taggtaagga aaatgtaatg attcactttt 60
 ggaatctatc catttttggc aaatttggtt tcaacctgat ttttgtatac taaggataat 120
 aaagatacgt tgaaaatttt ttgtattcct tgatgacttg tgaaatggaa ttgcgtttcc 180
 aactcgtgta tgtagtctct ctttaataaa gttcccaact tggaaa 226

<210> 2091
 <211> 409
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-042-Q1-E1-A6
 <400> 2091
 ggagaaaagt tttgtcgggt cgctcgtcgc gatttttctt tcgacttggg cgccaatctt 60
 cttcttcttc ttagaatgaa attgaatcgc gctaaccgcg ctactgggtg tcagaagcaa 120
 atagaagtgg acgacgaaag aaaacttcgt gctttttttg acaaaagact ggcgcaagag 180
 gtcccaggag acgctctagg agacgaattt aagggatata ttttcaagat catgggtgga 240
 caagataagg aaggattcgc tatgaaacaa ggagtcttga ccactgggtc tgtaagactc 300
 ttattaaaga aaggagactc gggttgccga gggtaggta tgagagacgg tgaaagaaga 360
 cgaaagagcg ttcgcggttg cattgtatct ccagatatag ctgtgttga 409

<210> 2092
 <211> 404
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-042-Q1-E1-B6
 <400> 2092
 acggacgcgt gggcggacgc gtgggcggac gcgtgggcgc gacaacaaca acaggaaatt 60
 cattgatgga caaacctcaa gtggatcatt ccacgttggg aaagatagac ttgtctcaag 120
 gcagctttaa agtactccaa gactgtgaca aagatttaga atgtgatcat aataccaagt 180

ttcagttgga acttattcag tatggtctct tttcacctgg tttttggacg agagaaaatg 240
 ttctgctctt ctatttggag ctctgtcag gtgtattcat aagggacact ctctaccttt 300
 tctacaacaa aggtgaagaa catttgtttg cgagtttaat gctgttggtg gagacacaag 360
 tctcactgta tgcagacata aaaacaaact gggaaaaacg acac 404

<210> 2093
 <211> 238
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-042-Q1-E1-C3
 <400> 2093

aagggaggaa agaaagattc ttcaaagaaa gaagccacaa gtaaacctgc agcagcagat 60
 gctacaaaga cgacagaaaa gtctgggtccg gaagccaagt tgaagggaac tgggtgcaaag 120
 aaacaataaa aagttgacta tgcattgtcc tggtatgttt tgtgagttct gtttgatagt 180
 ttccagctat tcttttggta gtgaataaag agaaaatttt ttatatttac acagagat 238

<210> 2094
 <211> 413
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-042-Q1-E1-C6
 <400> 2094

aaagaaagga agacacagta aatgaggcga gaaagcatag gaagtgaac ggattaagaa 60
 cccgtgtagt ctatgcagta aaagaaagaa tgagtaagaa aaaaggaggt cattcgacca 120
 ggggagtaaa ggcgcaagaa agaaacccaa agcaattgac ggggaatcga aaaaggggtg 180
 gatcacgtaa attaattcca tttaaaccga gaaccttacc tctccaagaa ggtgttgac 240
 ggctgtcgaa agaactgtgt gtgaagtgtg agaactgtac agaaagccaa gtgatgaaaa 300
 gaaggcaagt agaggcggtc ccgagaaatg agaggcggtg agacgtgata cagagtagga 360
 agaaacgaga agagagctag aaacgatgta caagaagagt aaaggactag aag 413

<210> 2095
 <211> 421

<212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-042-Q1-E1-C9
 <400> 2095
 agttgattcg aggaaaaacc ttggaagaag cgagtaaaat taagaataag gaaattgcag 60
 aagagttgaa gctacccccca gtgaaactac attgtagtat gttggcggaag gatgctatta 120
 aagcagctgt caaagacttg caaaagaaaa tgggtgcttc cagtgcctaa aagacgatgg 180
 aagtttctag tctttctctt cctccttttg tgtggagaag agttgtgtgt ttgtgtgggg 240
 gaagagaaga attggtgtgt gagtgaatag aatattattg gaaatagaag atggaaaagg 300
 caatagaagc aaagaataga ggaaatgctg cgttttctgc caaggaatat gacaaggcag 360
 tggaagcggt taccgtaagt tgctggactc tggaaccctt ttgttgatat ataaatatat 420
 a 421

<210> 2096
 <211> 355
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-042-Q1-E1-D11
 <400> 2096
 attgtgattt tacgcaatct ctggaggaat atcgaacacc tcaataaacc ctttgtgtgt 60
 ggaagtgttg ttttgaaaat gttaggcttt gtctcaggac agtctctgag ctactttacg 120
 tgtatgaaca aagacgagag tttgctttta aagtgtaaac gtcgggtacc atattcacga 180
 attcactgta agccaagtca tttggctgac aagagactaa gacggacttc tcgtaagtgc 240
 tgcttagttg cgttcgtata gttgcagaat ttttcctcag tttgcgtttc gtgtcacagc 300
 ccttcaagtg actctgagca acagttggcc tgttttcgtt ggggtgcgtta tatgc 355

<210> 2097
 <211> 394
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-042-Q1-E1-D5
 <400> 2097

accacgcgtc cgccacgcg tccgcaagat tgttgtttcg tagtttatgt agcaacaatc 60
 ggaatacttt tcgcgaggaa tgggaacatt taccgcaaca agaacaagaa tggaaaagag 120
 caggcaatac ggaaaaacaa ggttcattgg gagaaagaaa accctaccct ttgaagcctc 180
 ttgacttgga taccagatgg agtcttgga gcttgaaccg tgccatactt ataggatatg 240
 tgggtaatga tccggtgaaa agagaaatct cttcgagcac ggctgcttgg atgtttccct 300
 tcagtaccgc ttacaagaaa agaacgggag accaagaaac aatcacgat tggcacaatg 360
 tgacagttta agcctcccc tccgcaaagt tttt 394

<210> 2098
 <211> 408
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-042-Q1-E1-D6
 <400> 2098

actcaacgac gtaatgagac tcaactcattt tctctttgtt ttgtcttttg tagctgtttt 60
 cctcgtagct catgcagttc ccgttggaaga agatgcattc agtttcagtc agacttttgg 120
 aaatgcttct gcttcaggca acgcctctgt tattccagct acaaccaaga tccccaaagt 180
 agaagtaact agtagtgctt catcaaagga caatggaaaa gcagctcaag tagactttgc 240
 agattactca aagggatata cttcgcttag ctatttttac gctccttctt acacatccta 300
 tgtggaattt cctcaatata cctcctatcc atcatggcct tcttttaatg agcagcctgc 360
 ctttggtggc ttcatccca atgcanagtt tggagaatcc gaaatttt 408

<210> 2099
 <211> 399
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-042-Q1-E1-D8
 <400> 2099

cccacgcgtc cgaagggatt ttgaaacgca aggaaaaaga atattgcgtg agtttggttt 60
 gcagtcgatt attcagcaga cgccatcggt taggaattct attgtgtgtc actcagttgg 120

tagagatgga ctgattgttc cttattatct catagagaag atgaaaatga agcgtcaact 180
 ggaaaatcta atagcacaac gacgtagcgg gacctggaca gtggaaggaa agaaaggaaa 240
 agttgatgta aagaaatatc actggacggc taaggagaag aatacctttt tcagacttgt 300
 gaaagaatta ggggtgcgact gggaaaagat tgcggaacaa attcctacca agtcaccttt 360
 gcaacttcgt gccttttatg atgagtacat gtcacagag 399

<210> 2100
 <211> 359
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-042-Q1-E1-E11
 <400> 2100

accacgcgtc cgcccacgcg tccgatcgtc ttccacgcgg aagtaatatg atcgatcgaa 60
 cagcattgcg caatgttgga atgcagtatg taacaaccgc ggatgatatt ggacatcgct 120
 tggtcgtaga gatccaacta aaggaatcca gcatatataa tagtcacatg aaggaaggag 180
 aacgacaaaa tgcggttaca gatatcattt ctacggaccc tgaaatggat aggaaagtat 240
 ctcagtgggt gtcggaagga caaaaggcat tcttagtaga agatgagttg acgggtgaac 300
 gtcgaggaat attcttaagc tcaaccaaatt tgaaatttca gaaacaacca attcaggac 359

<210> 2101
 <211> 406
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-042-Q1-E1-E2
 <400> 2101

accacgcgtc cgcccacgcg tccgcgcggg ttaggtcatc aagtagcaac cgatgccttg 60
 cagttgatgg aagaagctat ggcaaaggat catctaaagt tgaacgatcg tcagcttgct 120
 tgtgctcgaa tacaatcgaa accaggtcag gattacttgg aagctatggc agctgcagct 180
 aattttgcct ttgtaaatcg ttcttccatg acatttttag cgagacaagc cttttctaaa 240
 gtattggatg ccagtgcaga tgacctcgat atgcatttgg tatatgatgt gagtcataat 300
 attgccaaaa tagaggaaca ttggttggat gggaagcctg ttcagctttt agtgcacgt 360

aaaggtgccca ctcgtgcctt tcctcctcat catccactca tacctg

406

<210> 2102
<211> 263
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-042-Q1-E1-E4

<400> 2102

gcagtccatg ctcagctgca tactgccacc tgacagtttt gcaagtttca tgtatgtatc 60
tggaatgcg aagtttcctg atcatgtgtc ccgtatgcct tggtaacaa cctgcggtta 120
gaattgtgaa gcgaactact gctgttgcaa aattcagcaa acacgcctac tgttaatgca 180
gtgggtctaa ttgaatcacg actgtctcat aatgttttga agtagcattc cagaatacat 240
acagttgtac ccaagttctt gcc 263

<210> 2103
<211> 389
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-042-Q1-E1-E5

<400> 2103

cacacgtcca ggagtataac aagacagaga aaggaaaaaa ctgagtatca ggaagaaaag 60
agggagtaga tgaggaaaga cagatcaagg aagtaagagt aagagaagga gtaatgtgaa 120
tgaaagcagg aaactatttg aagaagagag tgtaaagcgc gtagcttttg cataatgtcc 180
cagcgagtga aagaggaagc atagagaaag aaaaagaagt atccaggtaa gacccgaagc 240
tagttgatct tatgctgtcc aagcgaagta aggctgaacc agtatctgtg gaaaaagatt 300
tggaagttat ggcagagaca cgtgccagca gcagcggtta aacgtgtgta ccacgcgtag 360
agcacaggaa ctgggtgtaa aggtcgagt 389

<210> 2104
<211> 404
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-042-Q1-E1-E6

<400> 2104

ccgggccgat ccaaactgcc aggaaaagag agtaggacgt ggcaacggta gtggccgtgg 60
taactattgt ggaagaggga taaaaggaca aaagaagcga caaggaggtc acgtgaaacc 120
ttggtttgaa ggaggtcaga cacctctttt ccaaagggtta ccacagcaca agtttccaaa 180
gacttggtat gataatcatg agttggtatt tttggcagaa gttcaacgtt tcgtggatat 240
tggcaagttg gatccttcac aaccggtgaa tctcaaagaa ctatttcggg ttggtattat 300
aagaatgccg tatagaggag ttcgtttagt tgcccgaag gtcgaccggt tttcgtcaac 360
cttagacttt gaggtaactc cttgtactct taaaccagca caac 404

<210> 2105

<211> 360

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-042-Q1-E1-F5

<400> 2105

agtatgatgc aggcaaagaa gtgacgcagt agatcagaga gtaacacatg caagtaggta 60
aagcgaacgg gtgagtaaag aggtgtgaaa gagtggaaga acatgaaagc acaggagaat 120
gtaagaaatg gttagagtaa aaaccataaa ggaagtaaaa gcgggaatct gagaggagga 180
aagccacatt ggcaactgaga aaagggtccaa acaagagaag tcagcagtgg ggaaaattgg 240
gcaatgtaca gggaagtatg acccagtaat gaggagtggg gtaaacagaa caggaagtaa 300
aaggacggaa tgaagggaag ttatggcaaa aacacgtgcc agcagcaacg gtaaaacgtg 360

<210> 2106

<211> 430

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-042-Q1-E1-F6

<400> 2106

accaaagcgt atctccgttt cctggaaagc ctttgggttt acgttgctgt aatattcaac 60
aaaagaaata ctggataaaa cagagatata ataatatagt agtatttcaa gtaatatgtg 120
cagctaattc gaaacagtct ttgtaccgaa ttcgtccctt gcaacgacaa gtaagaaata 180

gttgagttta caaatatttg caagcaatgt ttccatacac atcctccatg gaagttgtta 240
 ctgcgaccca tattcttttt ggaaacattt ctgggtctat tgttggtgat gaatataaaa 300
 gaatcgcaag atgactcgct tgatcaagtt ctctgggcac aagaagagac aactggcaag 360
 tatccatttc taggtcgttt agtgggtggt gttcaattgt ccactattcc caaatgctct 420
 caagttttcc 430

<210> 2107
 <211> 366
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-042-Q1-E1-F7
 <400> 2107

aactctgctg tatagaagac gtagcattac agttgcgcaa gcagattgaa agggtttctg 60
 gatgtactgc ttctataggc attgggtcga acaagacatt ggccataata tcatccatga 120
 aggcaaatcc taatggacag tttagcatct ggtcttcgga agctatcgaa taattatcat 180
 tgttgccagt ggaacatcgt cctgggtgctg gatggataac tcgacgtcgc ttatagtcga 240
 tgaatatatt tacttgtcag caactacggg aactgtcttt agaaacgtta gatagagagt 300
 ttggacgaca tacagctcat gctctttatc aagcttgcca aggaaaggat gatagacctg 360
 tggaaa 366

<210> 2108
 <211> 206
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-042-Q1-E1-G1
 <400> 2108

acgacgcgtc caacatgcat gatcaacaat gcaagtagca tacgtcgttt gatgcccag 60
 acacggaagc aacaactgct tcttcaacta ttgctggtgg atgaagtggg gactttcata 120
 catatcgag gttgacaccg acagaactgg aacgcctatc acaactagac atggaggcac 180
 aggagaaaca tgaaaacgag atattt 206

<210> 2109

<211> 406
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-042-Q1-E1-G10

 <400> 2109

 ctacagtaat gctggacaat ggggtatacac tatcacgtgg aaagcagagt tttgtcgtct 60
 tcgagaagaa ctgatgagtg taaagtatta gaagttcatt gtataaagct tgggtatgcag 120
 tcatgagtgg cactctgtgt atgaaggtag acacctgttt catatgggaa ctataacctga 180
 taaaagcggg tatattcagg tttttgatct tcgaatgatg gtctctggct cggaggatgg 240
 atttaaagtt gtaagactat atacgagacg ggccgctaaa ccactttcag tagagctcga 300
 ttatggaatg aactcatggg acatgttagg aacgaacctc agtagtaaaa tggatgatgg 360
 cacctttggt agcgatacgg taagaatgct gttgaagggt ttaaga 406

<210> 2110
 <211> 376
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-042-Q1-E1-G11

 <400> 2110

 aggacgcgtg ggccggacgcg tgggcggacg cgtgggcgga cgcgtgggtt gttgggcctt 60
 gtgggtggtga tgccctggat tgagctacgt agtggcaact ccgctgtctt gaaagacata 120
 actgcaagta ttgaaaagcc tgacataaaa tggataacta ggacgaatct cagtacttgt 180
 ctgaattctg cagaaggaaa tgttacggtt gacttgctgc gccagtgtag cttgaaggat 240
 atattttcat tgaagcttct cgacaataac tttaagttgg cgtgttttaa tgatgccttg 300
 tttttagttt taccaggctt atcctttggt attactggta atcgtatatt ctgtagacgc 360
 tcggacttga atgaaa 376

<210> 2111
 <211> 450
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-042-Q1-E1-G2

<400> 2111

ggtcgacgac gcgtccgccc acgcgtccgc ccacgcgtcc gctttgtggg agaaatgttt 60

gaagccttgt gacttgggat tctctttgtc tgtcttcgtg ggcaaaggte gtagctaact 120

tgcgcaactt gttgtttttt atgcactaga atggaagtgt cgtggtggcg tcttttgggt 180

tggccctcgg aagatcaacc actttcgcag tatattgtgg tcaaagactg tgctttatgt 240

gaggggacac cttttttaca ccagatagct gcagcatact tgcgaaacgg atttttccta 300

gtctatctgt ctgcagagac accatggtat tccctgtact taaatttaag aaagctggga 360

gtacgttttag attctagcca aggtagaaaa cgcataattgt tcttcgatgc ggccgaccca 420

tcggaacga acagcaatga agactaacca 450

<210> 2112

<211> 426

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-042-Q1-E1-G4

<400> 2112

gtcgagggac gcgtcaaggt tgatatctat ttgagtgggt ttagtcataa tatgcaagaa 60

attatgaaaa cgctgactat tataagtacc atattttatc cactaacgtt tatggctggt 120

gtatacgga tgaatttccc tcgaatgcca gaattacact atggatatgg atatactatc 180

ttttggtacg attgttgttg aggagtttct cgtacaagta tatacatgat tgagaacgga 240

acataggttg atggcacttg tcatagttag gcttgaaata tttatttttc gcaaacgagg 300

ttggatanga agttgatgta tgctgcagat cgaattgtca ggagaactac gctggcttgc 360

tctttgctcc tggaccacaa ggaacaaact ccatcagctt taccgcataa actattgact 420

tgaaac 426

<210> 2113

<211> 382

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-042-Q1-E1-G5

<400> 2113

acggaggcag ttgcaactgc tctgtattgg ttagaacaag atgaagcaaa agggctctaag 60
 atttatcata ctattagaaa ctgcataaga aaattttgtg aaaaacaaat gcagtacatc 120
 tccaaagact ccgtgagaca tcgacgtcaa aatcaagggt atatagaaca attgtatgag 180
 cagtggcaaa gctaaagcta gaaaaagggt tagttttccg gttcttggtc ttttctactg 240
 ggacgttctc tactatgacg cctatgacga cttgaggaat gccttccatc tctacttgag 300
 cgtctttctc tactggacct tcttctatgg ctcgagctcg atctccttct tctatgatgc 360
 tcggggagaac gacttttctcg tc 382

<210> 2114
 <211> 422
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-042-Q1-E1-G6
 <400> 2114

gggccgaccc aaacgtccac gttcatgaat gtatttttgc gttcgttgat tcgtgcactg 60
 gcctcccttg tgtttactta ctacagaatt tcgccaaata tggggggtga acaagctttg 120
 cccgtggcct gccctatagt aagcgaagtt cttagttggt ggcaagtttt ctgtaggaga 180
 cctgactgga gtctgggact gacgactctg actgaaactc caaataattt tgtcaagttt 240
 cagtcgtctc atgtgtttac ttttctttgt tttgcgtgag atcgcagttt ctgcgggagt 300
 ctgaccgggt gggagagact tcagcttctc tttacaggaa tactttgcca acttggtggt 360
 atttgttttg cttgaaagta aatataaatt gcatttgttt ggaaaacaac atctacgttc 420
 ac 422

<210> 2115
 <211> 390
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-043-Q1-E1-A1
 <400> 2115

gcgtccaccc acgcgtccgc acgatagcgc cgacgacaag acggattata gaaagatagt 60

gctctccagt gtttggtttt gtgatggggc gtctcagtgg cagccataaa atanagtaat 120
aatttggtta ttcggcctaa atacagaatg agtaggaata gttggaggta ccaaatcgta 180
tcctgagtaa atcttttctc cacttgagaa gatgtcctgg aattatagaa acactagctc 240
acctctatatt cgggttcgtc tgaattgctc aactttaaac aaatatactt ctttagctgt 300
cttacagtga tatccgggtg gcactcttaa gaacggtttt tgtagggacg gcagattaga 360
gccctggatt ggtgaaagct gtaacaaaca 390

<210> 2116
<211> 76
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-043-Q1-E1-A11

<400> 2116

gaaacagccc tcatcacct agacatttcc actgggctcg catagggata ataaagatag 60
gttgaaaatt ttttgt 76

<210> 2117
<211> 209
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-043-Q1-E1-A2

<400> 2117

cgcgccaac tatatgacgc aggcatacaa gtgacgcagt agatcagaga gtcacacatg 60
caagtacgta aagcgaacgg gtgagtaaag aggtgtgaaa gagtggaaga acatgaaagc 120
acagaagaat gtcacacatg gttagagtag ggcccatggc ggaagtaaaa ccggaaatct 180
cacaggacga aacccccatt ggaactgag 209

<210> 2118
<211> 72
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-043-Q1-E1-A3

<400> 2118

ggtcagcgag gtgaagtgag tagagaaata acaaggatac ttgtgctaga aaataaaggg 60
gtcttttctt gt 72

<210> 2119
<211> 305
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-043-Q1-E1-A5

<400> 2119

cccacgcgtc gaccggatgc attgctcagc gatgtgaagt aaacgagtgg tttgtgaaaa 60
tacaacgaat aagagaaggt cgggaagctt tcaagtcatt tgcccagtga cacgtttctc 120
gtggttagag tgtgtccttt gaaaatttga ggaaaaggac atagttttgg ttcctagcgg 180
taagcagtac ttgttctaga aattttgtaa gtttatactt tggctattct tttatagaca 240
cgcttaggca agcttgtatg tgggacactg cttggaaagg catttggaat acttaggatt 300
gcctc 305

<210> 2120
<211> 392
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-043-Q1-E1-A7

<400> 2120

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actatacact accaaacttg atcgttcggc tcccgatttt gatgaaaagt tgcgaaaggc 120
cgaggaaata gcacagcaaa ttcgaagagc ggaaaccacg aatatccact tgaaggaaga 180
aagaggacag gaattggaaa gagattatga tgaggaatta gtatatggtg cagtgggttcg 240
tgaaagtgac gctggagaat tgaatcaaaa gtatgacaat caaaaacccg atggaggctc 300
ttccttgctg gtgttganac aagaagggtc gaatggaagt gcagctgttt ctgtagaccc 360
tatccccgctc tccgattttc gacaacggac ca 392

<210> 2121
<211> 394

<212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-043-Q1-E1-A9
 <400> 2121
 aatgtaaagt atagagtgtg cggcctgcc aatagtatag aagaaatcga tgaaagtgat 60
 cgccaataca agatgcggat ccacgagca attctgagga taatggtgaa gtcaacaag 120
 aaaatgatga acttaattca caagcaactg gagaagaaga tgcagaggat atggaagaac 180
 cttggaccta tttgttgag caaattgagg aggcagaaag gatagagttg cactgtggtt 240
 ggtccaagga ggatcgacaa aaccttcttg ttgcgttgaa agagacaaaa caattagatg 300
 caacagtcct ttcgcaacat gtgaaaagca aaagccctga ggaaataacc gaatatctaa 360
 aagtattaaa ggacagactt gggaagaaag atga 394

<210> 2122
 <211> 405
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-043-Q1-E1-B11
 <400> 2122
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 ttggataact tgttttctct atgtgaacaa aagtttttgg aaatgcgtcg aattgcacgc 120
 ctgttacaac aagcgggtac tttatcggtg agagaacaat ttgagttttg ccaagctcct 180
 gtaaaaattt cggatccatt tcttatgaaa tacttggttaa ggtaaataag aggctttggg 240
 acattttctt ggaatcgata actcgtgtag ttttgcaaag aatgttgctg caggcgttcg 300
 ttcggaactc accatccgtc cgtatcgtag caaattactg acacaacttg atttacacaa 360
 gttggaaagt cgatatcgag tatttgattt gtatagctac ttgag 405

<210> 2123
 <211> 355
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-043-Q1-E1-B12
 <400> 2123

aagaacaaga actgagttga cgatataaaa ggaagaacgg accgagtttt acaagtcgat 60
attgctggag tattcttctc tgccgttttt tcaggagttt tgatgattcc tgcctttttt 120
gcgttcaata tgtaattcc aatagagcat ttgaggaacg gaagtactta ttttttcatt 180
gcggtagtaa ttctttgttt cgtagctatt gctgttctgg ccattctgta tgtaagggtg 240
cttaaaggaa atgaaagaat gcgacttgag ttgctgttgg gcaaggagaa gacagcaaca 300
ataacaggaa cagtgaatag ttagaaaggt tgatgttctg agatattcac tactt 355

<210> 2124
<211> 246
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-043-Q1-E1-B3
<400> 2124

acatcaaatg ctcaaacgga ggaaagaaag attcttcaaa gaaagaagcc acaagtaaac 60
ctgcagcagc agatgctaca aagacgacag aaaagtctgg tccggaagcc aagttgaagg 120
gaactggtgc aaagaaacaa taaaaagttg actatgcatg ttctgttat gttttgtgag 180
ttctgtttga tagtttccag ctattctttt ggtagtgaat aaagagaaaa ttttttagat 240
ttacac 246

<210> 2125
<211> 294
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-043-Q1-E1-B5
<400> 2125

cccacgaacc aagggggcga gttgctcgt ataaggcctc cataactccc ttatggctct 60
caaaatagtt ttatgcgaaa gtctctcatc tatttgcaag tatctatgat tggacaagct 120
cttatcttct gtactcgtgc atactggatg ttctttatgg atcgtcctgg tagcttattg 180
atgggtgcat tttgtactgc acagactctt gctagtttct tatcggttta tgccaagtgg 240
ggctttacag gtattgacgg agttgggtgg ggggtgggctg caactgcctg ggta 294

<210> 2126
 <211> 381
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-043-Q1-E1-B6

 <400> 2126

 gaccacgcg accagcttct cctagtacgg aagaagtttt actgtctgta tttcagtttt 60
 tagaaaaagt aacagaatat cccagcagtg acccacataa agctttggca ctggtgtac 120
 acggtatttt gttaactcac ggttttcgtc cttcagaaga agaaccacct gaaaacgtgg 180
 ataactgggc ctttgcagtt gaaaatgcga agatacccaa caactttgag gaaaataagt 240
 atggagggag ttatagacac tacagaagtt gtatgacgtt tgaaattcga atggtaacct 300
 tgagcaagtt tgtgggtgtc aacgcagtag ccagtgatat ggacaaagta ttttattcgg 360
 agctcagact gggaaaaatat t 381

<210> 2127
 <211> 94
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-043-Q1-E1-B7

 <400> 2127

 gtccgttgtc gactcaaadc gcattatgtc ctctcatctc gttgtggcgt tcctaagggt 60
 actgtctgat tggattggac tgcaccgcgg gcga 94

<210> 2128
 <211> 397
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-043-Q1-E1-B9

 <400> 2128

 agaatagtag gcggtgatgg attggaagag acaagctggg tgaagtagcg agacaagaga 60
 agggaaagtaa aaggtaagaa agaggaaagg tttacgagag aaggaaagtag aaagaagaga 120
 gtgtaaggcg gcgtcataat agaaatccga aaggagtaga agaaaagaga gagaagaaag 180
 aaaagaagag aaaagccgta ctgaagaccg acacaggtac tcgaggagaa aggagaccca 240

aattaaggtg agagaatgga cgataaggaa ctaggcaaaa ggatatggta tctgcggtag 300
 aacatatgaa agaagcagca ccgactgttt agcaaaaaca cgtgccagca gcagcggtaa 360
 aacgtgtgta gcaagcgtag agcacaagaa ctgggtg 397

<210> 2129
 <211> 265
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-043-Q1-E1-C1
 <400> 2129

cgacgcgac cgatcgtag cgtggcatgc attccacttg ccgatgggtc attgcgctag 60
 cttctgtcgg gttattcttc cagtttattt ctcttatatt ccatctcatc tctcaattgg 120
 caaagatacc gtttgattgg gctgtggaag cagttgtaaa ctttttcatg atgtgggtgg 180
 ggtttgctgg tgctttgagt gtgatgatat cgaagcctac tgcccacttt cagcggggat 240
 atgattttgg tttggaagtt agtac 265

<210> 2130
 <211> 381
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-043-Q1-E1-C3
 <400> 2130

cagagatctc tagagaaagg caagaaagaa aagaaaggaa gacacagtaa atgaggcgag 60
 aaagcatagg aagtgaaacg gattaggaac ccgtgtagtc tatgcagtaa aagaaagaat 120
 gagtaagaaa aaagggagtc attccaccag gggagtaaag ggcgaagaaa gaaacccaaa 180
 gcaattgacg ggaatcggaa aaaggggtgg atcacgtaaa ttaatccgat aaaccgagaa 240
 ccttacctct ccaagaaggt gttgcacggc tgtcgaaaga acgtgctgtg aagtgagaga 300
 acgtacgaga aagccaagtg aggaaaagaa ggcaagtaga gggcggcccg agaaaagaag 360
 ggcgtaagac gtgatacaga g 381

<210> 2131
 <211> 183

<212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-043-Q1-E1-C4
 <400> 2131
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 gtgatgttca acagacgcac gggcttgagc atgaagagtg gttaaactg acggagacgg 120
 gcgggggttca agatgagaaa tgtagtttag gcgatgtggg aaatcctgag gaagtaccgt 180
 ccg 183

<210> 2132
 <211> 358
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-043-Q1-E1-C5
 <400> 2132
 cacgcgtccg cccacgcgtc cgccacgcg tccgagacgt caaaatttcc catcgcatg 60
 tgaccaactc ggcgtcgtcg tagtacattc ctttgggcat acttgtaaa ccatgaagta 120
 cttggcagct tatttttttg ctaaaatggg aagcaaaca ggcaaacct ctgcagatga 180
 tgtgaagaaa atattgactt ccgtaggtat cgaagtagat gaaggtcgtc tcacgcaagt 240
 cgtggaagct ttgaacggaa aagatttgaa cgagttgatc gaacaagggt tacagaaaat 300
 gtctacggtg ccttcgggtg ccactgcagc tggtgcagca gcagttggtg gagcagct 358

<210> 2133
 <211> 376
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-043-Q1-E1-C7
 <400> 2133
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 gaagcttggg ttggagaaaa gcaacctttt gatgttatcg ttgccaactt agttcttcat 120
 atttaccag gaaacaatga aaaatttggt caacatgtgt ctggtctctt acgcccgtgt 180
 ggtgcatttt tgggccaac ttttgcagcg gaggattctt ttgaagaagc atatgagttt 240

ggaattcaac gcagagcagt gatgcatagt ccagtgtcca ttgcatccat gttggctcgc 300
cataatatcc atcccgttca tgtggataca aagagcagat taatagacga cgaagatttc 360
aagtggatcg aaacag 376

<210> 2134
<211> 389
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-043-Q1-E1-C8

<400> 2134

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ggggattggt gccaacgata tagctcaatt tggtaattat gaggaatgaa acggcagcgg 120
agtttgcgaa aagagtgaag caagcaatcg tgcgtcgaat aggcttgata gatgtggagt 180
gggatggatt cttgaagaga catcgaatgt cctcaaagtt tattcaacaa agacaaaagg 240
cacatgcaat ggttttcttg cgtcgaatgc agcgaaatgc agaacattcg caggaaagag 300
gttttgactc ttccgtagac ttgagttcgc tatccacagc ctcttctcca gccatcgtaa 360
gaaagaggaa agccaaccac acgaaaggg 389

<210> 2135
<211> 406
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-043-Q1-E1-C9

<400> 2135

cgtccaatgg aatgtttgga atgcaccaag ttatgagcaa ccaagtttgt gaagcaagtg 60
tggagttgaa atatttagag gcagtagaga atgtacagga aatatacaaa aatattccag 120
agagtgatct attggagttg tatggtctat ataaaagaat aaaggatgga gaagctcctt 180
tacagaatcc tttctatttc tatcaatgga aagaaactgc caagtggaag agttggaagg 240
aggcaagtaa taagtattca aaagaggaag ctatgaagaa atatattgca ctgagtgaag 300
aatatcacia gaaagattcc aatacaagtt atactgggaa acagccttta ggtttcgagt 360
tgctaacag tgaagaagag caatcccaga aacctgtttt ggacct 406

<210> 2136
 <211> 234
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-043-Q1-E1-D1

<400> 2136

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 aactgcactt gaagccaagg cgagtttaat tgacgggagt tggaaaccac gttgttgcaa 180
 aattcttttc aggtgggtat ttagcatagt ttgactacgg tgtgaaggca gttg 234

<210> 2137
 <211> 378
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-043-Q1-E1-D10

<400> 2137

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 taccagcttg attttagttt tctttctttg gttggcctcc tttgtcgacg cattgtatcc 120
 aattcttaca aagttctggt ttgtggagct tggatcaac atattcctta ctatgtgggtg 180
 gttggttggt gcaattgtgg tgactgcaaa gcgaccttct agtgttggtta tggatgcgct 240
 tcacataacc aaagatatca attcaatcga tggcctttca tggatcaact ttgcttttac 300
 gctattcctt tgtggagtag cagcagttga cggattgttg gtgggagata agaccagcag 360
 ctccggcaaa cagaatac 378

<210> 2138
 <211> 386
 <212> DNA
 <213> Cyanidium caldarium

<223> unsure at all n locations
 <223> Clone ID: LIB190-043-Q1-E1-D2

<400> 2138

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acaagtgcac aaagaccaga ctttatgccg tatcaaaata atggagggac agtagtagct 120
atgggagggg aagactattg tatcgtcgcg gcaacgactc gtctagggtt gggtttcgct 180
attcctacga gaaacgtttg tcgatatgcc atcttaaacy accgcgtact gttggcaact 240
gctggaatgt atgcagacac cgttgccttg cacaatttg taacagctcg agtcaaagt 300
taacaacaac accaaganaa accttttggg ttattctccg ctgcacantt tgtatccact 360
actttgtatt tcaggagatt ctttcc 386

<210> 2139
<211> 322
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-043-Q1-E1-D3
<400> 2139

ttcgtcgacc gacgcatgca acgtactata cgaagaagat ttgaaagacg tatttatatt 60
cctctaccaa atgttcaagc acgagaacga atgtttcagt tgcattgtggg aaatacaccg 120
catgagttga aacctgaaga tttccacgaa ttggctcttt taacggaagg atattcgggg 180
tccgatattg ctatttttagt tcgtgatgca attatgcagc ctgtacgtac ctgtcagaat 240
gctcaagcgt ttaagaaagt gaagaagccg aagagtgcta cggacaaagc attaacgata 300
ttctatacac cctgtagtcc ag 322

<210> 2140
<211> 284
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-043-Q1-E1-D4
<400> 2140

cgcgccaag gacgcgtggg tgaagaccac aaaggaagca tctccggccg tctttctttc 60
tttcgtttca catgtagggt tttctgtttg caagattaaa ctgtcgtgta gtcgctcagt 120
gacgctgttg cttgtttcta agaattgggt gagacttggg aggcgttcaa gagccaaagg 180
atatgaccgc attgtatccg cggcattgga ctctttttcc ctgccagcgc ctgaacatct 240

gaatggagct gagaactaca agtatgggga tcagcgtaac ttga

284

<210> 2141
<211> 370
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-043-Q1-E1-D6

<400> 2141

accacgcga ccaccacgc gtcgcccac gcgtccgcc acgcgtctga agtaatgccg 60
acgcagtccc aactacgttc cttaggtcga ctatatttgt ggagaggcat cgctcagcat 120
ggaggtycta ctgcggtagc caaaagggtg ggatggaaag tgatrttgaa accttacaaa 180
ttttggaaat cttttgagca tttggaacgc gaactgattg cattttattga gcattctcac 240
ttacctcgag tcatgccgac gcaggagaca ttgcgataag ctggtcgtta ggatattatt 300
catgccattt acgttcatgg acgctcggat gaagttgcaa ggcattttta tttgccttac 360
aatccgactc 370

<210> 2142
<211> 384
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-043-Q1-E1-D7

<400> 2142

gagaaaggca agaaagaaaa gaaaggaaga cacagtaa at gaggcgagaa agcataggaa 60
gtgaaacgga ttaggaaccc gtgtagtcta tgcagtaaaa gaaagaatga gtaagaaaaa 120
agggagtc at tccaccaggg gagtaaaggc gcaagaaaga aacccaaagc aattgacggg 180
aatcggaaaa aggggtggat cacgtaaatt aatccgatgt aaaccgagaa cttacctct 240
ccaagaaggt gttgcacggc tgtcgaaaga acgtgctgtg aagtgagaga acgtacgaga 300
aagccaagtg aggaaaagaa ggggaagtaga gggcgccccg agaaaagaga aggcgtaaga 360
cgtgatacag agtaggaaga aaag 384

<210> 2143
<211> 387
<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-043-Q1-E1-D9

<400> 2143

caattcgtat tgcacagtgg aattggatat cgacggctat tatggataac aaaataggaa 60
agcgtggagg tactttgaaa gacgtttcag caccagactt cattgcaagt tacgcaaact 120
ttttaaaacg caccggaaac gtggaactgc catcatgggt ggattatgtg aagaccagta 180
cgaggaacga actagctcca tatgatccag actggttcta cgtgagaatg gcagctctcg 240
ctcgtcaa at ctatattcgt ccaggtagag gtgttggtgc attccgacgg gtatacgggtg 300
gtcgaaagag aaggggatcg aagcctagtc acttcgcgtt ggcttccagt tcagtcattcc 360
gacatgcact tagacaactc gaaaagt 387

<210> 2144

<211> 85

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-043-Q1-E1-E1

<400> 2144

accacgcga tcaaacaatca gcgcacgcgt ttgccacgc gtccgggaat gggttgcgca 60
ttctccacgc agctgcaggg gccta 85

<210> 2145

<211> 423

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-043-Q1-E1-E11

<400> 2145

acccaacgtc caccacgcgt ccgcggacgc gtgggagcga attgaagaaa actttgcttg 60
tgactttgtg ctgaaacctg aaatgatgca gcaacttgcg aaattggata aacagcaagt 120
cgtttgtgat accaaagaat attggaattt ggctgtgaat tcctagtttt tgttcctaaa 180
aaataaaaaac taaaatgtgt cgtttacatc gttaaaaaaa aaaaaaacia aaaaagaaca 240
aaaaaaaaaa aaaaaaaat acaaaaaaat aagaaaaaaa aaaaaaaaaa gaagaaaaac 300

acaaaagatt aaaaaatatt ttttaaaaaa ggggggcccc cccaaagggg tcaaattcta 360
 ttacgtttc aatcaaagtt caaacctctc caaggggggc cccaaattca attcaagggg 420
 ccg 423

<210> 2146
 <211> 407
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-043-Q1-E1-E12
 <400> 2146

attggnctcc cacaaactct gtcggttggt gaatagtttg gttcgaatat ttatcggtga 60
 agaaaagttc gaaaagatgg aaacaaaaga gagcttgagg gaaaaatttt gcagaatatg 120
 tcacgataca gatacctaag agcttattcg accttggtgac tgcacaggta cggtggcata 180
 tggtcacaga gagggtctcc agaggtggct gcagcaagtg tccgactaca agtgtgagat 240
 atgtggcaag cagtaccgtt gtaaaaagaa aactcgctcc tttttgagtt tcctctttcg 300
 taaaggagct tggcgagaat ggctgcactt ggggtacgtc accttttttg tcaatcgaat 360
 ttggagccaa actggagttc tgttgcaaact tctgaaacta agacaac 407

<210> 2147
 <211> 127
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-043-Q1-E1-E2
 <400> 2147

cgcgccaac caaccgtccg ggcggtgctt tccggaatgc ttaggtttgc actagcctat 60
 actttttcttg cccccctgt ggggtacacgc aggctatgat tgggcgcctt cgctgtgttg 120
 tttgtgg 127

<210> 2148
 <211> 375
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-043-Q1-E1-E3

<400> 2148

cgcggtccaat gaattcttcg tgggtttgcg tctcaagatg tcttttttga aacgtataca 60
gtcgactctg ctttccaaca gaaactcagt aacaaagaca agtaaggcca attacgacat 120
aaagcacgtt cgggtttacc gctgggaccc tgaaaaggga gaagaaccta aattgggttac 180
ctactcgatt cctctcaaag aatgcggtcc tatggtgttg gatgccttat tcaaaataaa 240
caatgaagtg gacgctactt ttgtatttag aaggtcgtgc cgagagggaa tttgtggaag 300
ttgtgcgatg aatatagatg gaaaaaaccc tcgggcttgg ttaactccgt tagcaggacc 360
gaagcagaca gtgac 375

<210> 2149

<211> 198

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-043-Q1-E1-E4

<400> 2149

tgaggcaag tggagcacag actttttcag acatttgagg gttatgcctc ctctcctcc 60
tcctccgcaa tcttctatat cgacgaccat tactggaaaa gctatttgta gttatgtttc 120
tgcgctatta gaagaaggag atcgcgattt gaatgctatt ggaaagcata cagttcctag 180
tggtattttt acacagga 198

<210> 2150

<211> 375

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-043-Q1-E1-E7

<400> 2150

cacgcgtccg caaaagatca agcagcaaca atgtactatg acagtctctg aacaatacat 60
acagcccgat acttgctaca agtatgtccc tgaacaacaa ttggtgcctc atacttgta 120
caagtattat tctgtaccca agtttattga aaagtgtctat cctcagtatg caacaacgga 180
gaaatgtgta gagtatgagt aggttccata tgccacttct acaccttate catcggtatc 240
tccaagttat actccttcag catatcaaac aacttctgct tattaaagag ccgaagactg 300

gatagatttt tgaagtgtct cgtgttcaaa ggaaccatga gacataagaa aaagtaaacg 360
atttggtttt atgta 375

<210> 2151
<211> 373
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-043-Q1-E1-F1
<400> 2151

cccacgcaaa caagcgtecg cccacgcctc cggatgacga ccgttcatgc aactactgcc 60
acccaaaaga cagtagatgg accttctcac aaggattgga gaggaggaag aggaattttg 120
aataacatta ttccatcttc tactggagca gccaaaggctg ttggtaaagt tattcctgaa 180
ctgaatggca agttgacggg tatggctttc cgtgttcctt gtccggatgt ttctgtcgtc 240
gatgtcactt ttcgtttaaa gacaccaacc acttatgacg atatcaaggc aacgatgaaa 300
gctgcgtcag aaagcaaagc tttaaaggga atattggcat ataccgaaga tatggtagtt 360
tctactgact ttg 375

<210> 2152
<211> 427
<212> DNA
<213> Cyanidium caldarium
<223> unsure at all n locations
<223> Clone ID: LIB190-043-Q1-E1-F12
<400> 2152

ctcaccccat ctagtagaag aatatgttgg cgtttacttg tctcacagac tgtcgttggt 60
tagagacttc tegtattctc agatgtgcca aagccaatac cgtctcgttg cgacgtagtt 120
cccagtgttc acactcttgg aggagtgttt cgatgaacta cagtccttat tcgataacta 180
ccgacaaatc agaaggacat attgttcccg gtactttttc aagatttgag tttcttgaag 240
gtcagtcac cgggtccaacc gtcttgaacc ctagcatact tgactttaca gtgtctaattg 300
tttcagatgc tgcctttgga gaatggagag cattatcggc ttcaagtaga gcanaagaac 360
tggaacacag aagaaacgtt caciaagcga caatagaaag tctcaagaag actcctaccg 420

aaaagtc

427

<210> 2153
<211> 223
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-043-Q1-E1-F2

<400> 2153

gtccgcccac gcgcccgaa agaggcaa acgggaaagc agtaaaagaa gaaagagaaa 60
ggaaaaaact gagtatcagg aagaaaagag ggagtagatg aggaaagaaa gatcaaggaa 120
gtaagagtaa gagaaggagt aatgtgaatg aaagcaggaa agtatttgaa gaaaagagtg 180
taaagcgcg accttttgca taatgtcgca gcgagtgaag gag 223

<210> 2154
<211> 365
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-043-Q1-E1-F4

<400> 2154

gcgcccgacc aagcgccga tcttctcggt ggatgctacc tctattagaa catttgcgaa 60
cgtcttattt caagttgaat ccatctatgc catccacttt tcatgttgga gagactcttc 120
agaagccaca attgtgtcag attgcacaag ctttggttaac agaagcggat aaaattctgt 180
attctgttta tcgtcatgta ccagattcag gtatgttgac ggaagaaatc aacaggtata 240
cgggattcga acaaggagca gaaaacctta catggagtta tgactcggtt gttactgcag 300
tctggagcag gaattattcc ttgaacactt ttcgtagtaa ttgggttttg gggtagtttt 360
ttttg 365

<210> 2155
<211> 303
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-043-Q1-E1-F5

<400> 2155

gcggacgagt gggagcggat tgacataata ttagcctgcg acattgtgcc gtttccatgg 60
gatgtggcaa cagcatcata cttcggata tcatcatctc gtatagtgat gcgacaacca 120
ctggaaatct cgctgtttcc tcttaatttt tctgcgaaag actattcact actgtgtgtc 180
gaatacatat ttccaaatat tacgaggaga aaagttggtt cgagcatctt tgtcatggat 240
agaaactcta aaataagcac caagacactg aagaggcatc ttccggatac acgagacttg 300
ggc 303

<210> 2156
<211> 300
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-043-Q1-E1-F6

<400> 2156

agaggaggag gcagaggaaa tagtcgagga ggcagtcgcg gtggtagttt tcgagggtcca 60
atgaatgata atagacagga aagagatgct tcacaagggt tcgccaactc tgcgaagcgt 120
ggtgggagag accggacagg tgataaaagt gcgactacga gaagagtgcg ggaaactagt 180
agaggaagag gaagtgaag agcaggagct ccattccgtg gaaacaacgg accgaatgag 240
cgccctccaa gagaaaggaa tattgggaga aacgacagga aacctttctc tagaaatgat 300

<210> 2157
<211> 395
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-043-Q1-E1-F7

<400> 2157

accacgcga ccaccacgc gtccgggtgt ttgttggtgc tgtagtctt cagtgggtgag 60
cggatatgtc tctgacagac atcctgtatt gggtaggacc agtagtttgg agcaaagcgt 120
ttgaccttcc actatctgtt acttgcttct ttatatattt catagtattt catatagctt 180
gtgccttctt tggatttgct gactattgga agcttctgcg caagtacaag ctgcacgaaa 240
gtgacgagaa gacctacctg cagttgctgc caagagttgt gttcaatcaa ctggcggtttt 300
acttgactag ttgctacata ggagagaaaa tgggttggtt attcagaacc ccttctaaag 360

acaatgcttt ccaactctgg aagttgcta tctat

395

<210> 2158
<211> 296
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-043-Q1-E1-F8

<400> 2158

accttttcag ttattgcaag attccgccag cagtgaatca gattgaaatg catccgtatt 60
atgcaagaac agatctgctc gaattttgta agagtcgtgg agttcatgtg actgcttatt 120
ctcctcttgg gagcggtaaa catggtcctc ttcaagatga gacagttgca aagattgcca 180
agaaacatgg aaggacacct gctcaggtat tgatccgatg gtgtctagaa cgtgggtgtg 240
ccgttagtcc aaagagcgta aagaaagaac gtatcagga aaactttgga gtttta 296

<210> 2159
<211> 371
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-043-Q1-E1-G1

<400> 2159

cacgcgtcca accagcgtcc gtgatgatgc gccgagtaga gacgtgactt ggttggttca 60
gatcgtttgg aacaatagaa tctttagaaa ttttggctt ttttgggtgt ttatgtgctg 120
ttttgtgact aaagtgtctg tactgaatat ctgctgttga catgaagttt gggaaaaagt 180
tacaagacgc agtggaagct gcanacaagg attggaagcc gtactttata gactacaacg 240
gtttaaaaac gttaattgct acgagtgtgg tggagtacaa agacaaggaa ttcagtgggtg 300
gtgtggtgga ggaagacaaa gaggaggaga gtacgaaaga ggagcagacg gcggtgaatg 360
gagaaaatat c 371

<210> 2160
<211> 288
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-043-Q1-E1-G10

<400> 2160

ttgcagtagc gtggatcata gcggtagggt gttcacattt gacagtttaa cactgtaaat 60
atcgcatgaa tgttcatttg tacatcagta acactttctt agaaagagat caaagggttag 120
cagggtgacgt cactgcggat atcgccacag acatgtgtgc tcttttagata tctgagtgc 180
tttagcgctg caattgtgtt ccgtgtgagt catggtaatc acagtacctc atcagtatgg 240
ctgtcaatgc gtccgctata gatctcactg caatgctagc ggtaaaac 288

<210> 2161

<211> 325

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-043-Q1-E1-G2

<400> 2161

cccacgaatc aaatgcagca atttcggcta attgttgtgg aacaagataa catgtcgacc 60
caaaacgcag taggctctgc caacttgaga aggagaaata cggcttcacg cagttccgggt 120
ttaactagtt ctggtacgag cacctcgagg aattatTTTT cgcgcgact gtatagcgac 180
gaagcaccgc gtttgagagt gggaccaacg tctgttatgg tttttagctt tgtctttata 240
ccttttggtg tagttttgca tgtgtgggtc aagtttcgag gttgattagg gaataatagt 300
gaaattaaaa gtacgacaaa catgt 325

<210> 2162

<211> 262

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-043-Q1-E1-G3

<400> 2162

cgcgccaag tgatttggtt gtcattacgc tccacgcagt gtgagttgtc gttgcgcagt 60
gtttgaaagt tatagtatta cttattgttc ttggttgga cactactgat ggacgcagaa 120
tcgagagaga aatctgttta cctttccaag ttggcagaac aagcggaaag atatgatgaa 180
atggtacaag aaatgaggaa agttgcctcc caaacgcagc aaaacaccac ggagctttca 240
gttgaagaga gaaacctttt gt 262

<210> 2163
 <211> 214
 <212> DNA
 <213> Cyanidium caldarium

 <223> unsure at all n locations
 <223> Clone ID: LIB190-043-Q1-E1-G4

<400> 2163

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 caactggaat tcccctagta cgggcgagcg aagcgggaag agcccactat gagaatcctc 120
 tttttctacg gtgagaagag gagatgtgtt taggcaggac aagaaatata tgccggcagca 180
 aaggagcaca tttcctggaa tggaatatca tgga 214

<210> 2164
 <211> 356
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-043-Q1-E1-G6

<400> 2164

 tccaggcgtc gtcgattttt ggttgttatt ctctccttg acctatccta cacaatgaaa 60
 ggttggcttc atcagtatag tattgttgga agaaagatac caacggaaga ggaacctgaa 120
 cccccaacgt atcgtctaaa gattttcgcg ccaaatacag tcaacgcaa gtcccgtttt 180
 tgggtactttc tacgtaaact taaacgagtg aagaaatcgt ctggcgaaat tctgaacatc 240
 agcgaagtgt ttgaaaggaa accgactcaa gtaaagaact atggaatttg gataagatac 300
 aagtcgaggt cggacactat cagtaggtat agggagtata gggacgtgac aattac 356

<210> 2165
 <211> 281
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-043-Q1-E1-G7

<400> 2165

 cccacgcgac catgtgtgtg taacaactat cagcaccaca aaaagatggt tcgtatgagt 60

gtattagccg atgctttgaa atccatcgcc aatgcagaaa gaagaggaaa gcgtaagtt 120
ctcatccgcc cgagctccaa agtcatcata cgcttcttgc aggttatgca aaaacacgga 180
tatattggag agtttgaata tgtggacgat catcgctcgg gcaaactcgt cgttcacttg 240
ataggcagat tgaacaagtg ccgtgtgata tcaccacgat a 281

<210> 2166
<211> 373
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-043-Q1-E1-G8
<400> 2166

gacgcgtggg atcgactgaa acgagatatg tttacgacgc gtcggaatac ttggcccttg 60
agagatatgt ttggtcgact cattacgttg cctgaagtaa cgagcaatac caaaatgtac 120
ctacgagact gttttgatca catcatacaa attatcgata ttttgggaagt atatcgggat 180
agttcgtatg gtctcattga tattttattg agtgggtgcaa acaacagaat gcaagaagtg 240
atgaaaacat tgacgattat cagcacgata tttattccgt tgacatttat aaccggtgta 300
tatggaatga actttagttt tatgcccagag ttggagtatg actatggata tttctttttt 360
tgggtattgg tga 373

<210> 2167
<211> 446
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-043-Q1-E1-G9
<400> 2167

ccggtcgacc caaacgtcca aacaaaagt atgctagaac gaaaaaatct ggatagctta 60
tggacaaacg caaagggaag gttacaaaag cagaagtgtc cgcagtagca gatgttgaca 120
tgaacgaaca aaatggcctt tatttcaatt tataacaact tgtttgcaag tagagcagta 180
tttcgtccac aacaagcaac agtttgtact ttaactcaag agggatatcc gaaaataatc 240
atagctacag tacaataaag caagactcct atgacatctg tagcggttgc cagcaatgga 300
ctagcacaat atgcaggatc agtaccacat tgttctaata acaaagggtac aactgctcca 360

gctaccatgg aaaaaatcac tattaataaaa agagcactgg atacagttaa cgcagctttg 420
atgttaattg gcacataaac taaaac 446

<210> 2168
<211> 365
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-043-Q1-E1-H1

<400> 2168
aaccaagcgt ccgcatttct tcttcttggt gttgttggt gaatttgtag tagtagacca 60
caaagatgaa cgggtgtagta tcttcaggga atatggtgta taacacgctt ggaaaaagcg 120
gcttattagt atctaaacta tcttttggt cctgngtcac ttttaacgaa caagtggacg 180
tcgaactggc ttacagcttg atgaaaagag catatgaact gggttgcaat ttatttgata 240
acgctgaaac ttatgcagct ggagcagcag agtctatcat gggggaggct tttcatcgag 300
gtgtaaanga gggcgtatgg acaagagaag acttggtgtt tactacgaga atattcttcg 360
gcgga 365

<210> 2169
<211> 373
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-043-Q1-E1-H10

<400> 2169
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ccagtgcttg gttggctatc ttgtcttggt gatagattga ctagtacagt ctttctattg 120
aatgagacgg tgctaaattc cccatccgtg taaatattac ttcttatgac ggaggagata 180
aaggattgct tcaaagaggc atctacatct acatcaagga acgagaacta tggtagtgaa 240
tatgagtatg ctagagaaaag gaatacanag aaaagaacat tgcctttcga ttccaaattc 300
anactaaaga gaattgcact aaatgacata acgaatatat ctcatctccc ttcagagttc 360
atttcaagtg atg 373

<210> 2170
 <211> 281
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-043-Q1-E1-H2

<400> 2170

cgcgctccggc aaggggaatat cacaacttta ggcagaggtg gtagtgattt gacagctgct 60
 gcgataggag ctgcttttagg ttgtagtgaa gttcaagttt ggaaagactt ggatggaata 120
 ttatctacgg atcctcaaat tgtgtctggt gcagttccaa ttccctttgt gacctttcaa 180
 aaaccctttg aaagggcata tttgggaccc aaggttcttc accccattgc aatgcaacct 240
 gcaatgagat acaacgttcc tattcgagta aagaattctt a 281

<210> 2171
 <211> 101
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-043-Q1-E1-H3

<400> 2171

aaccaagcgt ccgggcagtc atcagaatta tggactcaga tttgcgatcc gagtggctcc 60
 ctgcttagtt cggacatgtc catggcttac tatatagtcc a 101

<210> 2172
 <211> 376
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-043-Q1-E1-H6

<400> 2172

tttgtagaag cgttggctgt tgcataaaga gctatgtcgg aagagtcaga caacgaaggc 60
 gtggagatca agttagagac tgcacctcat gatcctcgct tccaaactac taaccaagcc 120
 aagcactgtt ggtcgagata catcgagtat cacgcttggt tgaaacaaaa aggtgaagag 180
 gacagcgagt gtcaaaagtt taaccgatgg tacaagtcac tgtgtcctat ggaatgggta 240
 gaaaactggg acgaacagcg tgccaacggt acctttcctg gtcccgtgta gttgtactgt 300

tccacttggg cccttttggg gtttaactga cctgttgccc gtattgtcct tatggctttt 360
 tttgttcaat aaagtt 376

<210> 2173
 <211> 206
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-043-Q1-E1-H8
 <400> 2173

tcaagtgaat aaggtagatt ttttaccgaa agtatatgaa aaaattgcag ccttattaag 60
 ccaaaaaaat ttgacaatcc tagaaaagta aacttgaaat ttgcgtgaca aaaagaaaga 120
 aaaaggaggagg aaaagggggg agaaaaaaa aaaaaggggg ggaaagaaag gggggagagg 180
 aacaaaagga tcaaacggg gggggg 206

<210> 2174
 <211> 409
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-044-Q1-E1-A1
 <400> 2174

acaaatgcgg agtgactaac tattttgatt gctgcttaca ggaagctttg gaatggcgac 60
 tcccaactca gaagatgaca gcgtttggaa agaaatattc cactcattca ccagcagatg 120
 gtgcgaaagg ctaaaacgtc ttccagagct tccttcgtat attagaagtg gtgctgcgtg 180
 ggagtcggtg acaagaaagt tccatgactg gaaagaggca gttgtggcaa atccttatcc 240
 tgctgcagct tatgtggtga cttttggtgt tctgtatggg aggcttctat ggacaataag 300
 agtgtcaaga atagaagagg ctaggatcag acgtactttt caagaagtga aggatcgaca 360
 agctcgagaa aaagcaatac aacagcttcg tgaacaaaaa ctaaactct 409

<210> 2175
 <211> 421
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-044-Q1-E1-A2

<400> 2175

accacgcgtc cgggatggag tctcgtgtga cgtggatgct gttaaatact actcagtagt 60
caacgctgca gctgccatat gtaacgttgg aaccgacgcc aactctacgt tctgcttgg 120
gcaaaccaca ttacggagtg ttctccgaca cgtagacctg gataccttac ttgccaaaag 180
agaccaaatt ggagaggaga tgcgtaaagt tctagataag gagacggagt cgtgggggtat 240
acgagtcagt aacgttgaga tacgagatgt cgttttgcca accgatatga tacgtttcat 300
ggctagtcaa gcagaggcag agagagaacg tcgagccaaa attaatttgc cggatgggga 360
aatttcagtc gagtcaaaag ttggcagaag ctgctgcggt tatgcaaagg gagccaatga 420
c 421

<210> 2176

<211> 194

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-044-Q1-E1-A3

<400> 2176

accaaagaaa aatcgacaaa cagttcttgg tatgccaaac gcttggcact agctagcatt 60
tatagaagtt ctgagttgta ctggatttcc gatacatcgc aaggccagaa aatgacaaac 120
gcgtttattg cagaatggat acatacctgg gataaaacgg actccaactt gagtcgattg 180
gatgcaaaag caaa 194

<210> 2177

<211> 367

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-044-Q1-E1-A5

<400> 2177

aaccacgct cgcgccacgc gtccgccac gcgtccgcgg acgcgtgggt aaattatggc 60
ggaccatgat caagtggtag cgtacaagcg ttcagaagaa gaaaaatgga gccaaagcaag 120
ggaaaaaaga ttggaattaa tccaaacaat ggaaaaaggg aatgcgaatg gccccctttt 180
cccaaaaaaa aaagctctat tttccaatgt gctagatttt gggaacctgg cttggttccg 240

gagaaccac tttgcaatta cctgcgaaag taagaggcta ttctgtacct tcaggagaga 300
ccacggggga agtgggggat aaattggttg atatattacg tccatcttat caccaggaag 360
ggaaact 367

<210> 2178
<211> 406
<212> DNA
<213> Cyanidium caldarium
<223> unsure at all n locations
<223> Clone ID: LIB190-044-Q1-E1-A6
<400> 2178

aggaattggt tttctctact ttaaagaaga actttgagtc gaacgaagcg tcatgggagt 60
gcagtgtagt tgaaaccgca gttgctgttt ttatccagta ttatgaacag tgtgtggaac 120
agtactatct agcaagcaaa gattatgagc tacctggtta ttccaaagta aaacagattc 180
ggagtatgat tgaagatggt ctacagatag agaaggaact tggaaatatg cgtcagactc 240
ttgttggcgt tcggagtcgt ctttgtactt tcgaagctgc atcaagcagc gaaactcttg 300
tgcaatgggt gtatgaaaga aatggaatga actcttggtt gtattcttgc ttacaggtag 360
gtactctggt gcgtaatttt gacttgggga attttanaga agtgtc 406

<210> 2179
<211> 345
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-044-Q1-E1-A7
<400> 2179

accacgcgt ccgggaagag aaggaataaa caagaaggaa taataaccaa aaagtgggta 60
atccaaaagg aaaaagccca aaaaccaaga ttaaggatca aagttaagaa agaaaggaaa 120
aggaagaag acaaggtaag cttaaaaaca agaaaccaga gaaggaaacg ttaaagcatg 180
gaagaaaaga aattcgaaaa agaacagaaa aaggttagaa agaggaccga atcaaggtaa 240
aaggttaagg accaagaaga taagaaaaaa tccggggtgg tttatcaaaa caagaaaagg 300
gaatttaaag gtaaaaaagg ggaagggttt tacaaaaagg gggtt 345

<210> 2180
 <211> 417
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-044-Q1-E1-A8

<400> 2180

gatagaacaa accctgtcca actatttctt tgatgatctc gagtatattc ggagaacagt 60
 agcagatgag aaaccacaaa ttgaagagaa gcttcgacac ctttgtgatg actgtcattg 120
 ttgtgtggtg ttcacgacag gaggaacagg ccctgctcca agagatgtga ctccagaagc 180
 cactattgca gtgtgtgata agttgttacc tgggttatgga gaagctatga gaagtgtttc 240
 gagggaaagg ggagttgtaa cagccatact ttccaggcag caagcaggaa tccggaatag 300
 aagcatcatc atcaacttgc gaggttcaac gagagcagtt gaggaatggt tacaagttgt 360
 tttgccttcc ttggcgcatc gtgtttcggt gttacaagga gaatctattt tgcaccc 417

<210> 2181
 <211> 402
 <212> DNA
 <213> Cyanidium caldarium

<223> unsure at all n locations
 <223> Clone ID: LIB190-044-Q1-E1-A9

<400> 2181

aggactcncg tcttcaccgt cgtcagttgc ttccaagttg ctccgatagc ttttcgtaga 60
 aactgttggt tcgtagaat aatctgttac aacaatcgtc atcgttgttt tggttgtggt 120
 attcgaccca atatattctc gtggaatttg gaaagaagag ggttaccaag aggaaaagta 180
 tcttttattc atagcagact cgtacatctt ccatcagaag ttagtggttac tagtatgacg 240
 accagagaag tggttgcaac tcgagtaacg gaagcactca acaacttggt tccagatgaa 300
 gaaagtccgg atccacaact cactgcagca acccgccag aatttgagga ttatcagttc 360
 aacgcagctt tgtccttggc aaaaaagaaa aagatgaatc cc 402

<210> 2182
 <211> 413
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-044-Q1-E1-B10

<400> 2182

aacgaacgaa agtctatggg atattctaga atggatgaaa gtttcaagga aattaaggaa 60
atacgacaac ggcttttgag aatgcgggaa gatcttgag agccgtcagc taatgaacca 120
agtgttcctg tttccggaac gcaagatagt cagtcgacaa agttttcgag ccccgctggt 180
tgacaagtga aagagcagcc gacgataccg ccgatgtgga aggttattgg aagctgttac 240
ctggagatat gttggacaat gatcgggata gtgttatgaa tgttggtgga aacggagttt 300
tttccagtgt acttcgtgcc ttggcacata gcaaagatac gactagggaa gttgctatca 360
aagttattcg tcacaacgat gtaatgccaa aagcaccaca aaaagaaatt tct 413

<210> 2183

<211> 233

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-044-Q1-E1-B11

<400> 2183

tgcacccgag cgtccgacgg acgcgagggg gatagagcat aacttctaaa cttatttatt 60
tgaacgcaat tgaagtaata taaaacagtt ttgactaat gaggggaagat cttgcagagc 120
cgtcagcgga tgaaccaagt gggccggtct cagggacgca agcgagttag tcgagatggt 180
taccgagggc cgtcgcttga ccggtgacag agcagccgga cgcaccgccc atg 233

<210> 2184

<211> 101

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-044-Q1-E1-B12

<400> 2184

cgcgaggggg aaagagcaaa acttctaaac ttattttatt gacggcaatt gaggtattat 60
aaaacatttt ttgacgaaag aaggcagatc ttgcagaggg g 101

<210> 2185

<211> 425

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-044-Q1-E1-B2

<400> 2185

aatttgccga ctttggggga aagtatggat ccttggctaa aagcgttgca acttcaccgc 60
caacgaagaa agcgactgga agagaactca gttgatcaag aagcaacttt gggggataga 120
aactacgaag acgaagataa aaagacttca agtcaccgtt acggcaccac aattgagcga 180
ccttcgttgt atgatgaaac ggaaccgttt gctttcgaaa aaaggagtta tgtgaagaaa 240
agaaggaaat acaaagattt ttatgatcgt caaacattca natcacaang gaaacggctc 300
cacttcagg gaanacggaa aaagcgttgt agaaagtcc tacaagaata gtcccagaaa 360
tgcccaagag gcgtctttta agaacgacaa ctatttgga aatggctctt ccacganaag 420
agata 425

<210> 2186

<211> 409

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-044-Q1-E1-B3

<400> 2186

cccacgcgtc cgcccacgcg tccgcccacg cgtccgcccc cgcgtccgag gatgacaagt 60
ttgccagaca agtacggctt ttctttggag gactatgcat ttctgtttca gagtcaacca 120
aaggaattga taaaggagt atcagctgat gatatagaag gaacacttcc caaagatata 180
gttggttctt actttctgaa tggctcctggc ttgttgcaga tagatggaga ttggtttcat 240
ccctttgacg gacatggttt cattcgaagt cttaccttta gaggtgatgg ttcttgtttg 300
tatcgttcca aatatgtgaa gacggaagcc tacctggagg aaaccaaggc tggacacgga 360
gtatatcgtg gctttggaat gctctcaagc gggttggtggc gcaattgga 409

<210> 2187

<211> 422

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-044-Q1-E1-B4

<400> 2187

cccacgcgac cgcggacgcg tgggaaaagt ttccattcag catggctcct aaagggtgcta 60
aaagtgtacc cgttgcaggt aaaaagccgg tggcaaaagt tgaaaggaag aaatcaaaga 120
agaagagatc ggagacgtat tccatttata tatacaaggt tctgaagcaa gttcatcctg 180
acaccggaat atccgcaaaa gctatgagca tcatgaattc ctttgtgaat gatatttttg 240
agagaattgc gtcagaagct agcaaactag ctgcatattc gaaaagcaag acgcttactt 300
cgagagaggt acaaactgcc gttcgtcctt tgttaccagg agaacttgca gaacacgctg 360
tatcggaacg tacanaagca gtaacaaaat acacttcttc ttaacggtac aacaagtgct 420
ca 422

<210> 2188

<211> 410

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-044-Q1-E1-B5

<400> 2188

cctttgcgca gttggaagat aagataagtt ctgcagtgtc agctgctatt ggaaaggagt 60
tcaaggctac agtgggtcct tctgtcgggtg gaggatgtgt cagtgataca agagttattc 120
tttgtaaaga ctccgacagt ttgaagtttt ttgcaaagat cggcactcct gatgaagtaa 180
gcatgttggc agcagaatat cacgggggtct tggaaatgta caacacgaaa accataaggg 240
tgccgaagcc catttgctat gacagtacag accgcttttag ttttctgac cttgaaaacc 300
taaatatgac aagtagagca ggaaggaagg aatatgggtt gttgggaaaa aaccttgcca 360
aaatgcatcg ctgtactagt gacagaggct ttggttggca cagangaaat 410

<210> 2189

<211> 410

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-044-Q1-E1-B7

<400> 2189

agaagaagag atatgcggtg gtggacaagg caacttgttg tttctacaac aatcacaaca 60
 aaaagtgttt ggagtagata cttttctcat tgtcgggtaca acaattctgg actactagtt 120
 gcttccacca acaacaacta ttcagagttg ggttggagga gatatggaag ttggcctcaa 180
 agaatagcca gtataaacgg gatagatgaa ctggtgaaaa ataaaaacct cgtacgggaa 240
 tattaccaag gaacgagtct taatgtctcg ttgctattcg atgaacctct gaatggttcg 300
 tctctgagtt gggaggacga tgatgatgat tcttcttctt ctggttcttc tggttctgag 360
 agtgacgata gctttgattc gtcacagat gaggatagct cggatgatga 410

<210> 2190
 <211> 402
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-044-Q1-E1-B8

<400> 2190

cccacgcgtc cggaggcggc aagttgttgg ttgttggtccg aaaacttttc agctttggaa 60
 tatgtcttga aaagaataga ccatacttca ttggaacagc tattagaaca agttacccaa 120
 gaggttcaac aaatattagc agacgtaata caatatttgt tagaaaacag gcaacaagtg 180
 gaatatacag tgaaacaagt caagcagttt caacagagtt ggataaagat agagaaaaaa 240
 gtggcgcaag tagagagtca actaagctta ttggaaaagg aagtagcaaa ggacttggaa 300
 aatagcgcca aaaatttga agaaaaaga aaatatacca actggaaggt cgctttggag 360
 gcactgcaaa gaaaaataa aactttgagc agtgcttggc gt 402

<210> 2191
 <211> 416
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-044-Q1-E1-C1

<400> 2191

accacgcgtc cgcccacgcg tccgccacg cgccgattt tattgcttgt cgtacgagct 60
 tctggtacct atgcttctcc tttattccat acttatcggt cctcctcgaa cgatacgatt 120
 gctgcagaat tggagaagat gaaaaacttc acaactctgt tgagtctagc caaaattgcc 180

aatctgacta gtacttttga aaacgcttct cttgcagtta cgctctttgc accaacagac 240
 agcggaatct cttcaacact caaagcagtg aatatttcgg caagcgccat agagaaaaac 300
 agcactctgg taaagatgat actcgagtat catgtcgtac ctgagccatt aaagacttcc 360
 aaattctccg ctttgaactc ttacaaaact ttggaagggt tcaatatcac cgtgac 416

<210> 2192
 <211> 268
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-044-Q1-E1-C10

<400> 2192

accacgcgac cgcccacgag tccgcccacg cgtccggtca ctttgccatg gaagctttgg 60
 ggactcgttt gacgatgcta acaactccaa aacccaaaag ttgataacaa agtattttacc 120
 aaactattca atctgtgttt tcaaataatc taggagcaaa atgtataaaa gtaagaagcc 180
 gtagaaagag agacctggaa acgaattttc ttcggtgtaa atatcttctt tgtttgctct 240
 aagttaccac tctagaagca caacaaaa 268

<210> 2193
 <211> 387
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-044-Q1-E1-C12

<400> 2193

accacgcgac cgatgacagt tggaattgta acagtagtaa ttcattaacg aaagagacca 60
 actcagcatg cttttggcgc aacgagtcga ttttcaaagg atacagtaca ctttgttcaa 120
 gatgaatcta gtcgttactc caatggacct atcatggata aagatttaga agagtgggaa 180
 gcagatattg acgcggaagt ggaagctttc cgtaagagac tcgaggaact tagtgcgcca 240
 ttgaagaata agccataggt cgggtgccttt ccgcatcggt ccaggacatg tgagcagtca 300
 ctaaggaagc tttgtaccac aagttttcag agtacaaatg agaattcgag taaaacgagt 360
 agcgttggtg tcttatgaag tgttcta 387

<210> 2194
 <211> 140
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-044-Q1-E1-C3

<400> 2194

aaaaaaaaa aagatatact tgtgtctgta aaaaaaaaaa aaaaatcggg atatgctcac 60
 caagacacat aaaaaaaccc catgcaaaaa actataaaaa aaaaaaaaaa aagggggggc 120
 cccccaagg atctaacctt 140

<210> 2195
 <211> 366
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-044-Q1-E1-C4

<400> 2195

attgagcatt gttttggcac tgtttttttt ggggtttcac tctgtgtgtt tgtcttgaca 60
 aaactcgaag aagactatct atttcttggt atgtttgaga gttatttcta gaccgtgttt 120
 ttgggggtgt tgtactcctg tcttggtggt tggatgaatg ttctagtac aaagaagggt 180
 gtcactttcc cgccattctc cacagcttca actaccaact tgtatacgcc cacaactgca 240
 caactatatt actacagagt cgtggtgtag agcgacaagt tgaatgggtg aaaaggcttg 300
 gtgaaaagtg gaagactagt gagagagagc acttgaaaac ttgtaaaatt ggacccccctg 360
 gaaact 366

<210> 2196
 <211> 411
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-044-Q1-E1-C5

<400> 2196

aaataaacta tttctgcacc aaaagaatag ttaaggatct aggccacaaa ttaacagggt 60
 aagggatatgt gcagaaccgt tcaagtgcga attagaggct ttagggctat ccttattttg 120
 gatagagctt ggttctcgct ccacatcaaa attccaaacg atagtataaa caaatagttt 180

ggcatccgct tgaatctttc aataccccta tcttatcatt gtaatgaagg attttgagtt 240
 gttttactgg ggtggaagat cagaaggaag aatgggttct acgacagaag aatatcgcat 300
 ggattaacta caagtgaaga tgattgggaa ctcttttgaa acgctatgac agaggatata 360
 ctcaaagcct tgtgccttta accatagaaa cggacaacta ctcgaggaat c 411

<210> 2197
 <211> 223
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-044-Q1-E1-C7

<400> 2197

caagggaata gatggctatc tttggtacat cgtggcagcc ggaagctttg tgatatggtg 60
 gtcattcctt gccttgttta tattcaaaaa cagatcgcta ttaaactatt tgaacaattt 120
 gtacaagaag aagaggaaag atatcaactc aataaagtag tatggcactt gtatcattcc 180
 tctaaaacat aaaaacattc ataaaccata acttaacact agg 223

<210> 2198
 <211> 394
 <212> DNA
 <213> Cyanidium caldarium

<223> unsure at all n locations
 <223> Clone ID: LIB190-044-Q1-E1-D1

<400> 2198

accacgcgtc cgagaagggg agggaggagg atgcaagggtt ggaagaaacc agtcataacc 60
 gatgcttttg gaaacagagt aacttatgtg ttgaaaagat atttcaacgc acctactact 120
 ggagaagagt tgccacattc gttgggtggt catgtgaccg atgcagatac gttgttacgg 180
 cacaaagggc tgggagaaga aacagcgtat tttctgaaag aagacgctcg caagtttgaa 240
 aagttggcaa aacagttgaa aagtgcgttg aattcagggg aactaatgac aaaagaacaa 300
 ctcaaagtgg ccatggaaca gagaggaata caagtatctg aagagggtta nangacttgc 360
 ttcgtctaaa agagcacatt cgattctcgg atgc 394

<210> 2199

<211> 409
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-044-Q1-E1-D11

<400> 2199

acccaattaa agtagttggt ttatatattcg ctgatatgcc tttgtttctc aaaacatatt 60
 gaaagctttt gaatgtgtta aagagactga tttttcttta tttttgtttt cgtgctagaa 120
 tttgtttatg tttcctgttc gtcgcctttc ttctatttct aaaggacaag cctttgaaca 180
 cgctgtgttg ttgtatcttt cctacttggg ttttttcata cgtagtactg gaggagttgg 240
 tgaecggcgg atcgactttc gtggaacttg gaaacctaataaagcaatag agcctgtacc 300
 tgtcgtcggg cagtgtaaaag cattatcagg aaaggttggg gttcacgtta tcagagagat 360
 ggaaggaatc ttgtgccgcg aagagcctgg taccttgggt gctataatg 409

<210> 2200
 <211> 405
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-044-Q1-E1-D12

<400> 2200

aaaacattac acttgtaaa tgatgagacg cttcttggtc gtttctgtgt tcttcatgct 60
 atatgtttcc taatatgggtg ctattcatgc agctccttta tccatgcac atctacaaga 120
 ttctgtcttta ctatacaaat ggcaacaatc agaatcctta ccaacttaca agagacagac 180
 tgtcaatgca accgccgctc caactccac agtcagtgtc ggagaaacag atattcaaat 240
 tggattcact gggccgcag taagaatggc tcaaaagttt ggaatgctgc catccaaaga 300
 acgaactgta attacggttg cacaagatga cgctgcggat gcgctcatat tggagaatgc 360
 ctcgccttat catgtcattc aagtggaata tgttggcagt ccttc 405

<210> 2201
 <211> 340
 <212> DNA
 <213> Cyanidium caldarium

<223> unsure at all n locations
 <223> Clone ID: LIB190-044-Q1-E1-D2

<400> 2201

agcaggtcca ataacggaag tgacaatgag agtgagcgtc cttcgcgact ttcgcgagaa 60
aatagcaaaa agcgtcgggt aattgtattt gttgctggtg gtgtgacggc ttctgaaatg 120
cgtttggctt atgaactttc caagaactcc aatcatgatg ttattattgg tggctctgta 180
atattgacac cgaagaagtt tattgagaat ctgaacaacg tagtgcaaga ttttggaat 240
ggtaatcaac tttctccgcg tggttcgtcg tccgcattga natagtttcg gatattccca 300
atctcatcga ataaagtga caacaacgtt tgtgttgggc 340

<210> 2202

<211> 405

<212> DNA

<213> *Cyanidium caldarium*

<223> Clone ID: LIB190-044-Q1-E1-D3

<400> 2202

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aggaacacgg aggacgacag tagcgatggg attgtttagt agactgtttg tgaaaccgag 120
tcgtgtaccg caaagagtcg tagagtttca aaagcgcaag gcggaagggt acgttacata 180
caacgccggg aagtacgacc gatacatcaa cacacctatt tacctgtttg tgccttcac 240
cggctcttat gcccttactg acggttgtct ttgggcggca ggaaagaacg aaagtcaatc 300
gtgaatagcg ttttttgctc ctgtgggaca gtcttatgaa ctagtgattc ctttgttctg 360
ccagttttag tttcctgtaa tgaaagtttc ctttttttc cttgc 405

<210> 2203

<211> 305

<212> DNA

<213> *Cyanidium caldarium*

<223> Clone ID: LIB190-044-Q1-E1-D4

<400> 2203

gtctccaaga acaagtgcag aaaatgagaa aaaggaagct atagctaact tagctgtcat 60
gtttccaaac ttgtcycgca ctgagttatc gaacgctttg gaagctaata gctattcagt 120
tcaaagaacg gttgactaca tactctcgga aaagtcctcc tctcaccgc cgcgggcagc 180

agaagatgcg tccgaagttg ccgctcgcat cgctcaggta gaggaagacg aacgttttagc 240
 tcgtgccttg caaagcgctt atgaacggga aaataatgtt gaaagacaga ccatgtctcg 300
 aacga 305

<210> 2204
 <211> 406
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-044-Q1-E1-D5
 <400> 2204

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 cccacgcgtc cgaaaaatgc tagattttca tcgaaagcat ggcggaatgg gcacaatctt 120
 agtcactcag gtggaagaac caagcaaata tgggtgtcgtt ctttttgaca agaccgggaa 180
 gattgaacgt tttgtagaga agcctccaaa gtttggtggg aacagaataa atgctggagc 240
 atatttgttt agtcctagta ttttgagaa gctgggtttg agagcgaact ctatccagaa 300
 cgaagttttt cccggaactg gctgccgaaa ggactgggtg tatgcagtgc gaacttgatt 360
 cgtattgggc ggatattgga caaccaanag attacttgac tggaat 406

<210> 2205
 <211> 407
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-044-Q1-E1-D6
 <400> 2205

acggacgcgt gggagagatt ggaagagtcg tcctggtgaa ctatggcaaa gaccgaggca 60
 aactgggagt cattgtggat gtagtagatc ataatagggc gttggtagat ggtccactca 120
 cgggacttgc gagacaaacc atcaactgga agagcttaac gttgaccccg ttcaaagtaa 180
 agattcaaca ctccagtcgt acaggagttg tgagaaaggc atgggaagag gcgaaaatca 240
 cggaacaatg gcacaatagc gcgtggtata agaaactttg tgcacgaaga accatacaaa 300
 aacttgagga ctttgataga ttcaaagtga tgattgccaa gaagagaaaag tcggctatga 360

ttcatagtc a atggaaaacg ttgaaatcgc aacatcagta aaacatt

407

<210> 2206
<211> 407
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-044-Q1-E1-D7

<400> 2206

acatgggttg atatatgtgac tctggaaagg atgggtggcag attgactagt gcatgggaat 60
tgtacaaagc tcaagaaagt gtcaccaagg ttgcagagaa atatggaatt actttgagat 120
tctttcacgg tcglygtgga acggttggtc gtggtggagg aactcagcat cttgccattc 180
tttcacaacc tcttggtact atcaacaaat atttcagagt tactattcaa ggggaagtta 240
tacaacaaga ctttggtttg cctgggtttg cagacaggac attggagtgt tatttgacag 300
ctatcttgaa agccgaaatg atgccttatt ctcaagtga agctgagtgg agagaactca 360
tggaactgat gagccaaata tcttacaaaa catatcgag tgttgtg 407

<210> 2207
<211> 397
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-044-Q1-E1-D8

<400> 2207

ctttattata ttaagtttat cctcctttgc atttttagac gccgttecta gtcgacctat 60
tctttttcct ttggaagaga gtcaatgagc actagttgga ttcttcggtg tataagaact 120
tatcatcgac tcttagtgga caagccagtg ataaccaaact cagtaacttg tggatttctt 180
tcttttacag gagacataat ggcacaaact atcgaacaca agtactcgat gaataacaac 240
aacaacaata acagccaatc gaatacttg agaattattgt ctcgtatcga catgggacgt 300
actttacgtt ttacttcctt tgggtttcct atatttggtc caagtgtcga ttattggtat 360
cgcttcttag ataagttgtt tcccaaagcc actactc 397

<210> 2208
<211> 410
<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-044-Q1-E1-D9

<400> 2208

accacgcgac cgatttggcg gaagtcgatg gaaatcttaa gacctgctgc tggatgatcct 60
gttgggacgc ttagttttgt cattgcaact gtacaaaaat ataaaaatta ctgtacttgt 120
cgtgctgtat atggccagaa tacctgtatt ggtggttata gcaagtttca agagtctttg 180
ggtggtcgca agaattgacag aagacacagt tggcagatga caacacgcaa agaaagcaat 240
agtttcttcc agtttctgca aaaagtagtt aatccaccaa aagatgatac cacattgcgt 300
aaatatcatc aagtcgttca acgtatcaac caactggaaa gcaacctaaa ggctctctct 360
gatgcagagc tgaaagaaaa aactcgaata tttcaacaaa gactataaaa 410

<210> 2209

<211> 229

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-044-Q1-E1-E1

<400> 2209

agaaagaggc aaatacgga aagcagtaaa agaagaaaga gaaaggaaaa aactgagtat 60
caggaagaaa agaggagta gatgaggaaa gaaagatcaa ggaagtaaga gtaagagaag 120
gagtaatgtg aatgaaagca ggaaagtatt tgaagaagag agtgtaaagc gcgtaccttt 180
tgcataatgt cccagcgagt gaaagaggaa gcaaaaagaa agaaaaaga 229

<210> 2210

<211> 290

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-044-Q1-E1-E10

<400> 2210

cggacgcgtg ggacgaaaca tcataggaat ccgttggtgt cccctgacaa gtatcactag 60
tactggtata actaacgcct attgatataa ttgaacttcg agtaacgggt gttagaaatg 120
tcccgttttc cggtttgaaa ctctcaaaa tattttggct ggtctttccc ttgtcgtcaa 180

cgatatgggtt ctcagaatgt ctatcatgca aggttacact agcttgagta atagcaacga 240
gagaaattat agcaaataga aagagtaaac ctttgaagac tttcatcttc 290

<210> 2211
<211> 260
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-044-Q1-E1-E2

<400> 2211

aggtgtatga tgcangcaaa gaagtgcgc agtagatcag agagtaacac atgcaagaag 60
gaagaagcag agaaggacta tgagcgagaa ggtggatagt cgagagggaa aaagcccaga 120
agccaagata aggtatcaaa gtaaagaaag aaggaaaagg agaagaagag aggggtacgct 180
tagaagcagc aaaccagaga ggaaagcggt aaagcatgaa agaaaagaaa tccgaaaaag 240
aagagaaaaa ggtaagaaag 260

<210> 2212
<211> 393
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-044-Q1-E1-E3

<400> 2212

accacgcgac cgcaacgaga cacttttaag gtttctgtgg gttggactgg cttgccttgg 60
aaagtaagcg ttggtcctga aaggaacgaa ttctccctt tgttgctcctt gttttcaacc 120
tggtgttttg aaagtaatac gatacagtcc aacgctgaat tggttgggtc acaaggagtg 180
tctaagaaac gacagttttc ttgtcatcag tggattgtan ggaatacgag aaatacgga 240
gatggaatag aattgtatcc atcgtcgtag atagataacg aggacatata ttccaagaat 300
attggaagaa acacacatca atatgtcgtc caaatcctgg tccaagtagt gcgaagacga 360
cctgtatatc cacagctagt ccaacaagt atg 393

<210> 2213
<211> 395
<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-044-Q1-E1-E4

<400> 2213

gcaaagactg ctctgagttg cctctttctc tctttcctta tcgctgccgc agttgcagcc 60
gacgtagttt cagaggagag atggggatat gtcagcaaa cccaacaaca gcaacagtgc 120
caacaagtat gtaaacagta tgcatactat cagagtccag tctgcacttc cgtaaccaca 180
cagagcccat actggacca atgctcgaag actgtgcaaa cttttgtccc aagccagtgc 240
agtacttata cccaaatccc ccaaaatgga ccaatggcac acctacaaca aactagcgt 300
tacaacccaa tgcaacaagg ccgtgactac ctatactcaa acctgctgtg cttatgcccc 360
acaaacttcc tatgcagtca gtaccgagca atatg 395

<210> 2214

<211> 414

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-044-Q1-E1-E5

<400> 2214

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tgttggcaag atgttggctt atcgtcgcga aaaaacatta tttgtttcct cgtttacacc 120
ttgttctcac gccaaatttc tgtcaagtat aagaagaacg aacctttcaa tttgtaggaa 180
aacaaccagc aaggagtgtg gttacgtggt acgcatgggc gcagataact tgagtagggt 240
gtctctctgc acttttctat ttattactta aaaagtaaag agttttggaa agatttttgg 300
gctggtggct ttcctggagg agaagcttat ttgaaggagg tgatagagag taactttcaa 360
aagccagttc caggactcga tactagtgga gtaacgggac aaggggaaga aaag 414

<210> 2215

<211> 388

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-044-Q1-E1-E6

<400> 2215

acccacgcgt cgcgccacgc gtccgagacg tttgaaaggc gtccagtatg aaaggagaca 60
 caattgtacc acggtcaatt cttcaaactc gccgaaccac cactaactgt gaaaatgcag 120
 taaactacca ttaggacgga aggaccccat aattcttgac aaaatagggt aaggaaggaa 180
 agagaacat gaattacaga agttgggtta aaagatgaag gacaattgca tgaggatagg 240
 gactctacgt gattacggaa aataccctta acacattttg gcggggaaat taacacctaa 300
 cacagtgtat tttacgcacg caagggcatg agagatgtat aataccagaa ccattcttga 360
 agaagcagac tgatatttca caggggga 388

<210> 2216
 <211> 395
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-044-Q1-E1-E7
 <400> 2216

aagacatagt gaaaaccact cgcaagttga cacttccga aaagacagaa cagaaaaaag 60
 gcacagaagt gaacactcga ggcattggcgt tcgaaagaag acaagtcaca gccatcgacg 120
 cgagcgaaga cagcacta gtaacacacc aaaacatgat aatagaaacc atagtgaggc 180
 ggttgacaaa gtagaagaga tgagagcgac ttattccaag caaggatatg gcttagtggt 240
 tccaaaaggt gcaagctatc atggttgga accaaatgaa gaaagctcgg cgcttagtag 300
 tagtagtgac aagtccaaga acacaaaatc gagaatgaac acagaagcta caaactcgga 360
 cgcagtgaaa gctcatcggt cctcgactag tagag 395

<210> 2217
 <211> 420
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-044-Q1-E1-E8
 <400> 2217

gaaaagagag agaagaaaga aaagaagaga aaagccgtac tgaagaccga cacaggtagt 60
 cgaggagaaa ggagacccaa attaagggtga gagaatggac gataaggaac taggcaaaag 120
 gatatggtat ctgcggtaga acatatgaaa gaagcagcac cgactgttta gcaaaaacac 180

agcactctgc agaaaagaga aaatgtaaag tatagagtgt gcggcctgcc aaatagtaga 240
 gaagaaatcg attaaaagtg aaagcgagta aaagatgagg tatagagaat ggcggtccta 300
 acagtaagga tccaaaggta gcgaagtaaa tagacgtttg aaaggcgctcc agtatgaaag 360
 gagaaacgag tgtagcactg tctagtcgtc caactcagcg aaacagcaat aactgtgaaa 420

<210> 2218
 <211> 412
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-044-Q1-E1-F1
 <400> 2218

accacgcgac cgcttgctgg cagtgttggg tgagaatagt aaaacatgac gagatattcc 60
 aaggaaccag ataacccgac gaaaacttgc aaagctcgtg ctccggatat tcgcgtgcat 120
 tttaaaaaca cgcgagagac gggacgtgct ttgaaaggaa tgagcttaca gagagcaaaa 180
 acttatttga aaaacgtgat agagaaaaaa gagattgtac cttttgtacg ctatcgttat 240
 ggtgttggtg gaaaagcaca agccaaacaa cacggttttc ccaacggaag atggccgaag 300
 aagagtgcgt tggatatttt ggacttggtg aagaacgcag agtcaaatgc ggaagtgaag 360
 gggttgaatg tggactcgct ttatatattcc catctacaag tgaatcaagc ta 412

<210> 2219
 <211> 400
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-044-Q1-E1-F10
 <400> 2219

acgcgatcgg ctggtcttgc gcattggaga gtcttggcgc catgaatata gttactttgt 60
 atggagtttc tttgccacta acagttgctt gctttttgtt tcagtttatt accgatcata 120
 ggacttggtg tttctttgcg ttcatagact attatcagct tcttccagat cagatcctgc 180
 acaagtcagc ccacattgct tataccagcag tgctgcctcg agttgtgttc aatcagattg 240
 tcttttatct gccagcttt gttcttctgc agtatttgtg agttgcgtcc tgttcctttg 300
 agcccaagag ctctatatgg ctgtatgttg ctgattatcg tttctactcg ttccctcatg 360

aaattatcgt ttacagcggt catccattcc tgttacattc

400

<210> 2220
<211> 403
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-044-Q1-E1-F11

<400> 2220

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cgacgtggga agaacagaat ctgtcagtta ttccctattg caggctattt ttgtagaagc 120
tgcaaaggcc gctgctgaag gtggtgcaat taaaacgctc atgtgctttg tagttcgaga 180
tacggatcct tcttatacga cggaggaatt gaagaacata ttgttgcaag gggctanaga 240
tatttggaac actattccaa agtctggaga ggcattcgac gccaagctgg aagacttttt 300
tgactttgat ttgtttgcct tgccacatat gcactatgaa aaggagcaat ttgaaagaca 360
gtgcaatgaa ttgagagatc gatttcttca agagtccaat ccc 403

<210> 2221
<211> 409
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-044-Q1-E1-F12

<400> 2221

accacgcgac cggactactt caagattccg aggggtactt ctcatcaatt tgtggtttca 60
cgacgtggga agaacagaat ctgtcagtta ttccctattg caggctattt ttgtagaagc 120
tgcaaaggcc gctgctgaag gtggtgcaat taaaacgctc atgtgctttg taattcgaga 180
tacggatcct tcttatacga cggaggaatt gaagaacata ttgttgcaag gggctagaga 240
tatttggaac actattccaa agtctggaga ggcagtcgac gccaagctgg aagacttttt 300
tgactttgat ttgtttgcct tgccacatat gcactatgaa aaggagcaat ttgaaagaca 360
gtgcaatgaa ttgagagatc gatttcttca agagtccaat cccaattt 409

<210> 2222
<211> 301

<212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-044-Q1-E1-F2
 <400> 2222
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 tgttggtggt cttccttggt cagttagtga agaagacctt cgtgaaactt tttccaaata 120
 tggagaagtt gttgatgcaa gggttgttgt tgaacgtgaa actggtcggt cccgtggttt 180
 tggtttcgta tcctatgcag aaggttcctc cgtagacgaa tgcattgccg cactggatgg 240
 caaggatatg caaggacgca ctattcgtgt gaacaaggca atgtctcgtg aacaacgcga 300
 g 301

<210> 2223
 <211> 420
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-044-Q1-E1-F3
 <400> 2223
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 aaaatgaagt ttttgaagta gacacaagca ttgtatccct ttctgaaaca ataaaaaacg 120
 tcttggaaga taccgaagat acagagagca tacccttgcc taatgtacaa agacgaattc 180
 ttgcaaaggt tatcgaatat tgtagatata actcactcct aaaagaccat tccgcagtct 240
 gaggaagata ttgagcgctg ggataaggaa ttcctaaatg tagatcaacc aacccttttt 300
 catttgattc tggctgcaaa ctatttggtat atcaagagct tgttggattt aacttgtaaa 360
 cgagtagcag atatgatcaa aggcaagaag ccggaagaaa tatgaaaaga gtttaatat 420

<210> 2224
 <211> 228
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-044-Q1-E1-F4
 <400> 2224
 ggaccagaga gaggatgtgt tgttccacta tgttttactg gtgtatacag atatcgttgt 60

cacgagatcg gatacccttc ttaacgtgag agaatggacg ataaggaact atgcaaaaagg 120
 atatggtatc tgcggtagaa catatgacag aagcagcacc gactgttttag cagaagcaca 180
 gcactctgca gaaaaagaga agatggccag tatagagtgt gcagcctg 228

<210> 2225
 <211> 408
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-044-Q1-E1-F5
 <400> 2225

cccacgcgtc cgccacgcg tccggaaaag agaagagagc tagaaaggag gtaaaagaag 60
 agtaaaagga ctagaagagg tacggaattc acgaggaagg agcgtgaagg aaggaggaat 120
 cccaagtaat cgaggaagaa aaagcttcgg tgaaagcgtg aacggatttt gtacacactg 180
 cccgtcaagt tctggaagtg tgctaggagt ggagtaaaca gaaaaggaag taaaaggagg 240
 gaatgaaggg aagttatggc aaaaacacgt gccagcagca gcggtaaaac gtgtgtagca 300
 agcgtagagc agaagaactg ggtgtaaagg tcgagtagta gagtaagtgt aaaagggaaa 360
 ggaaaggaga gaaagacgaa agggatgaaa tgcagagatc tctagaga 408

<210> 2226
 <211> 187
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-044-Q1-E1-F6
 <400> 2226

gtccaaccac gcgtccgccc acgcgtccgg aaaagagaag agagctagaa acgacgtaaa 60
 agaagagtaa aacgactaga agaggtagc gattcacgag gaacgagcgt gaacgaagga 120
 cgaatcccaa gtaatccagg aagaaaaagc ttccgtgaaa acctcaacgg attttgtaca 180
 gactgcc 187

<210> 2227
 <211> 417
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-044-Q1-E1-F8

<400> 2227

cgattgaatg tgggtgaaag tcgacgtctg ctttgccacc tctttttggt gtctctcgtg 60
tgttttgcct ttcgaagctc aaagactatt tacttcctgc atgtttttaga ggattctcca 120
gatattgttt gtactagtct tgttacatgc ttcttggtgc gtgaatggct ctattgacgg 180
caggggtgtc attttcttgc caatctccac cgcttcaact gccaaattgt gtgcgtgtat 240
atacatatat ttgtagattc gtgggtgtaa aagaagagtg cagcagttga aaagtaagag 300
cagattacta aggtacctgt agaggagcac ttgagaagtg gtcatgtcct ttacatgtg 360
tacttttaat agctgttttt gcttgtagag attgcaagtt tagtttagtt gaaaagg 417

<210> 2228

<211> 385

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-044-Q1-E1-F9

<400> 2228

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caagcattgt aaccctttct gaaacaataa aagaggctct ggaagatacg gaggatacag 120
agagcatacc cttgcctaata gtagaaagac gaattcttgc aaaggttatc gaatattgta 180
gagatcactc actcttaaag accattccgc agtctgagga ggatattgag cgctgggata 240
gggaattcct aaatgtagat caaccaaccc tttttcattt gattctggct gcaaactatt 300
tggatatcaa gagcttggtg ggtttaactt ggtaacgagt atcagatatg attaaaggca 360
ataagccgga aaaaataaga aaaga 385

<210> 2229

<211> 244

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-044-Q1-E1-G1

<400> 2229

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gagattgaga aaatgccaga tatctacacc aagtttcgag aaagtgtgga agctggtgga 120
aagatcagag aaccgttgga acttagtgaa ggatttccac ccagaccacg ttgtgaacct 180
gcgtgaaatt ccaacgctta ccgaccttgg actagatgca tccccccgag cagtacctgg 240
tgag 244

<210> 2230
<211> 415
<212> DNA
<213> Cyanidium caldarium
<223> unsure at all n locations
<223> Clone ID: LIB190-044-Q1-E1-G10
<400> 2230

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tgacggatgg aatanggtag cgagttatgg atcgataata acggtgttat cgatgttata 120
ctggatgtgg ttggtagtga agagttggga gaagggtaag gagagtgagt taaggtggga 180
aagaatgagt atagagtggg gtatgagtat gataggttat cataactgga aggaggaggt 240
gatgttagtg aaggggatgg ggtaaggccg agtacgatga ggtaatggaa tttggatccg 300
tgtggtggtg gttcgagtcc acctaccca gtgggggtaa tggagaggag aagaaagaag 360
gaagagaagc ggatgttaaa gggaagatgt actactagag taagtgtaaa acgga 415

<210> 2231
<211> 384
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-044-Q1-E1-G11
<400> 2231

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taaagttaa gaaaccgaag ttataacgtc atcgaaaat cttgcgagac aatatccaac 120
gaataaccaa accagctatc cgtcgtttgg cgagaataag tggagtgaag agaatctcaa 180
gacttatcta tgaagaaaca cgaaatgtcc ttcattgttt catggcaagt gttattcgtg 240
atgcagttac ttatacagag catgctcgtc acaagacggt aactgctatg gatgtcttat 300

atgctctgaa acgtcaacgc cgtacccttt acggatttgg acgataaagc ctgcttgaac 360
aaagggtggtt tctcaacacc ttcc 384

<210> 2232
<211> 406
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-044-Q1-E1-G12

<400> 2232

agcaagcaca tcccgatgtc gacacatgag aaattattcg acagcaaaga aaaaacaaag 60
cagaaagctg atcatatact cgtcgtcata cctgtttggc agtccattta ctattcttct 120
ctttggatgt gtaagtgtgc cttcttatgg ttgcaactgt tgagaaatga acatctttct 180
catcagtaac catcctcaca tgacacaatc ctgatataata gcacatgttt gtaactagaa 240
actatgaaat gatccataat caaaggaagg agataaagga ttcattcccta ttctatgatc 300
tctattcttt ggagtcgaag aggaatcttt tctagttgtg attctccatt cgtcttctcg 360
tggttgaat gttggaaatt gtaaataagag aggagaaaca ctgcta 406

<210> 2233
<211> 349
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-044-Q1-E1-G2

<400> 2233

atcgttgctg ctatttttgt gcatgtttca ggaaattggc gctatatgct cgggagtact 60
ttggtatttt catctatatt actgatagcc atgcttacat taccgaaac cctcgttgg 120
ctgatgagaa aaggaagaga ggggcagtcc tataaagtat ggagtattgt gcgaggattt 180
gatactgaag aagaaagaca ggagtttttt gtgatgagaa agacggtgga acgggagttg 240
gaagagtcta aaaacagata tgtcattatg gatctcgttc ggggtacatcg ctgtcgtcat 300
gcaccaatat ttggcactat aatcgcaatt cttggtcaat tcccggaaa 349

<210> 2234
<211> 413
<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-044-Q1-E1-G3

<400> 2234

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gccgttgcta ttcaagcttc tcctctagaa gaaactttgg gtgcctttat gccgggtggc 120
tatcaatcgc aaagccaagc accaaaacct agctgttgca agttgagctg tcaatatacc 180
caaatttggt aacaagttat ccagactcag caagttatcc agactcagca agttatccaa 240
actcagcagg tcattccaaac tcagcaagtt taccaaaaca caacaagtgc agcaaacaca 300
acangtttcg tcagcatatg gacgcaatga ggtatccacg aggggatatg cccaacagtc 360
tgtaacccca agtccttgca ccttcctgtg tcaactggtc agtcaagtgc tgt 413

<210> 2235

<211> 247

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-044-Q1-E1-G4

<400> 2235

caatcacaaa ttaaaaaaaaa aaaagggggg cccttctaaa gttttcaacc ttacttaccc 60
ttgaatgcaa ctttatactt cttcaaaatt ttcacctaatt ttcatttcac tggccttctt 120
tttaaaactt ctttaattgga aaaccttgg gtttaccxaa tttaatccct ttgaagaaaa 180
tccccctttt ccaatttggc ttaataccaa aaaggcccg cacttttggc tttccaaaaa 240
ttttccc 247

<210> 2236

<211> 415

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-044-Q1-E1-G5

<400> 2236

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aaaacacttt cgaagccttg ggcaatattt attgaagagt tgaatcgtag atggcaaaaa 120

tcttccaaca gacttttgtt agttcttgga atttggtttg gggcctttgt ccttttaaca 180
acgttgttta cctgcattct tttgtacaag gatagcctca agtcgccctc gagaaaggag 240
aatcaggaa ataaggaaaa caaggagcaa gtagttaagg agtcctcgaa aagcccagcg 300
tcgtctctaa ggcatcgagt tcctaaaact tcttaagggg ttttgogaag aacgcttaca 360
cttttttctt tatatagtcc ggatcttgca acccgtttga cgtgcaaagt acttg 415

<210> 2237
<211> 414
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-044-Q1-E1-G6
<400> 2237

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ttctgtcttt tccaacaaca acaaaagcta ccaaactctg caactattgt tatcgacaag 120
taaaaaggag tctagaaaag agcaagttgc tttcaaagaa ttgttccttg cttgttgttt 180
tcacaccatg ttgttatttc tatgacaact tgccggcactc gtctcgatat agaaagccga 240
tgtggactat gtgtcagcaa caagaacaac aacaacaaca aatagaaata cttaggacca 300
taaataccaa cgggggatgg atgggtggatg ttcaagtcaa ccatcagcaa caactttcta 360
gacatacggg attactaagc aagggtttgt atgaagaact tgtatcgggt gacg 414

<210> 2238
<211> 395
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-044-Q1-E1-G7
<400> 2238

ggcgtgttgc gaagcgttgt cgttatcgtc tatggcggta tttgaaagtg atatagttgg 60
tcctgcaatt cactttacga aaaagtataa ttcaaggagg cgctacaagg agtgcatttc 120
gtgctttagt gcttcgggtg gtaaaccagg gtggttcttt tgacataagc cgaaaattac 180
tcgcaacggg ctatacgact gataagggtg tgaagaccaa taatggtgct gttcgagaaa 240
gtgactttta cgagagagtc ttttcaagaa tagcttcaaa gcgctctgac ttttggaag 300

aagtttctgt aaccttagta gtctctacca ttgacaccga gtcggataag gttatttcag 360
tgtggaacgc gtttggtacc aaagaccgtc agttg 395

<210> 2239
<211> 400
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-044-Q1-E1-G8

<400> 2239

aggatgaatcg atcctgtggt cgtcgacttt tgtgtgtctc ttgaaatggc ttccaatctt 60
caaacagacg gcaccaacgt tcccactttt aaaattatct tggtaagaga cggtggagtt 120
ggtaaaacaa cttttgtgaa ggcacatctt tctggagaat tcgaaaagaa atatattgcc 180
actgtaggtg tggaagtaca ccctcttaaa tttcatacca atcgaggccc tatcgttttc 240
aacgtgtggg aactgctgg tcaagaaaag tttggaggtt tgagggatgg ctactatatt 300
caaggacagg gtgctattat tatgtttgat gtcacttcta gaatcactta tgagaacggt 360
gccaaactggc atcgagactt ggttcgagta tgtgaaaata 400

<210> 2240
<211> 230
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-044-Q1-E1-G9

<400> 2240

agttacctat tccttttgtt ttgcctcctt tgattggcga ccgaacggaa cctcaciaaac 60
caacgggagc aagagcactt cgaggtaaga ctggacactc tcctgattcc tctctttacg 120
actctgtgaa aaagaatatg gatctgtctt tgatagaaca accaactgga aataactcac 180
gactgtaact tttgcaaata aaatatattt ggttgtgggt tgggacactg 230

<210> 2241
<211> 110
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-044-Q1-E1-H1

<400> 2241

aacgtgtgga tgcaactctt cctaccatca aatatatatt agaaaaagga gcaaaaagca 60
tcgtacttct ttcccatttg ggtcgaccag aaggaaaagt ggacaaaaag 110

<210> 2242

<211> 394

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-044-Q1-E1-H11

<400> 2242

aaaaaagaca gaaaagcttt caggaggagt gaaacaagaa tatttgtcgt ttttggcgcc 60
ttttgtgtat caacgttttc tcgtgtgttt gtttacttgg aacgctctgt tgattgaatg 120
ttttcattct aatttctttg taatcgaaac cattcgaggg tttgttacac tgactgttgg 180
tgcccctggt ttagctcttg ccgctagtct ttcgtttgcg cattattatc gacgcaaaaag 240
tatgccgatt ttgcaaagg aagacacatt tttcgagtga tggaacaagg tttgcgaaaa 300
taaagaatag ttgtgttatt cgttggaagc tttaaaaaga ataataacca aaaagaccac 360
aacgaatagc cctttccaaa aaattgcaca acct 394

<210> 2243

<211> 351

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-044-Q1-E1-H2

<400> 2243

attacataaa acttaccaat ttggaacatc cagaaccact tgctatactt ggaaggtctt 60
ggcgagtaac ggatattctt ggaagaaagt gtcgactaaa gcctcttcat atgtctagtc 120
agaagaatcc aatcatttcc aaagggtcaaa gcttggaata tgaaggccaa gcagttattg 180
actccaaaaa gggaacttta tatggaagtt ttgaagttat gaaaagccaa agtttatctt 240
tatttgtagc gaatatggct cctttaggac ttcgaggaaa acatgtcgtt tccaaagtat 300
ccattccata atatgtattt gtgtgtaaat actggaaaca tttctcaagg t 351

<210> 2244
<211> 313
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-044-Q1-E1-H4

<400> 2244

tgagcggatc ttacacttca gtaagaagcg tcaatgaaaa tgacgcagac gaactcttct 60
caaaggctga gaagaaagcc aaaagtgtc aagcctctgg aatacgtagt ctacttggtt 120
tggggggtaa cgcagccaag ttggaagaag cagcagagct ttttgtaaag gcaggaaaca 180
cgttcaaact agccaaagct tggcagaaaag ctggtgacgc ttatatgcga gcagcagaaa 240
attatgcaca acttccagat ttaagtttcc aaaccgcaac caaatttgcc tgagccccc 300
cttggtttaa aaa 313

<210> 2245
<211> 340
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-044-Q1-E1-H6

<400> 2245

accacgcgt ccggtggcaa ctccgctgtc ttgaaagaca taactgcaag tattgaaaag 60
cctgacataa aatggataac taggacgaat ctcaagtactt gtctgaattc tgcagaagga 120
aatgttacgg ttgacttgtc gcggcagtggt agcttgaagg atatattttc attgaagctt 180
ctcgacaata actttaagtt ggcgtgttta aatgatgcct tgtttttagt ttacaaggc 240
ttatcctttg ttattactgg taatcgtata ttctgtagac gctcggactt gaatgaaacg 300
gaaccattgg agtcctgctt ttcgtttatg aagatatgcc 340

<210> 2246
<211> 316
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-044-Q1-E1-H7

<400> 2246

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aagagttggt gtagtggaat ataatgaatc acttgaaatt agcaaattgt caaaggctgc 120
 ttccaagaga gcgttttagtg aggatatgta ccaggaatgt atccaaacgt tggaacaagc 180
 aggttccaga cctgatagtc gtggagtcgt gtttacaggt gaatgtgatt tcatttgcaa 240
 tgggtgtagac gtgaatctac tcaatgcaat gcatgtgttt caggtgataa gcaccgtagt 300
 tgatcaattg atgaag 316

<210> 2247
 <211> 410
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-044-Q1-E1-H8
 <400> 2247

gcgtccacaa gtggatcatt ccacgttggt aaagatagac ttgtctcaag gcagctttaa 60
 agtactccaa gactgtgaca aagatttaga atgtgatcat aataccaagt ttcagttgga 120
 acttattcag tatggtctct tttcacctgg tttttggacg agagaaaatg ttctgctctt 180
 ctatttgag ctcgtgtcag gtgtattcat aaggacact ctctaccttt tctacaacaa 240
 aggtgaagaa catttggttg cgagtttaat gctgtgttg gagacacaag tctcactgta 300
 tgcagacata caaacaact gggagaaacg acactttatc gttggcctca tcgtcaggtc 360
 tttgtgtgag gaatatcaac gacagtattc agagctatgt tcaccgaatg 410

<210> 2248
 <211> 419
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-044-Q1-E1-H9
 <400> 2248

accacgcatc cgcgaagata caagacaagg aaggtattcc cccagaccag caacgtttga 60
 tttttgcagg taaacagttg gaagatggtc gtactctctc agactacaac attcaaaagg 120
 agtctactct tcaattggtc ttacgtctga ggggtggaat gcagatattc gtaaagactc 180
 ttactgggaa gaccatcact cttgaagtgg agccctcaga tactattgaa aatgtcaagt 240
 cgaagataca agacaaggaa ggtattcccc cagaccagca acgtttgatt tttgcaggta 300

aacagttgga agatggctgc actctctcag actacaacat tcaaaaggag tctactcttc 360
acttgggtgtt gcgtttgaga ggtggctgtt agtgagttta tcctgaagtt gtttttctg 419

<210> 2249
<211> 413
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-045-Q1-E1-A1

<400> 2249

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tgggccaact ggaaggaagg atggaatcca attggtcccc ggaggtcgtc ccaaaaacgg 120
cggaaaattc cgtggccccg ggtaccgttg aaaaagggtt tgggtgtaaag aatcccagtt 180
ttatagggac aatcaccaac ttcagttgcc aaggggagaa ttacacgac gggatgggac 240
cgggtggcaag agtattttac ggaacaagtt tgaggatgaa aacttcaact tggagcaatc 300
tgagcccttt ttattgtcca aagccaattc gggaccgaat gacaacggaa agtcagtttt 360
cattacagta gtgaagacac cttggctgga tcggaagcat gtagtgtttg gga 413

<210> 2250
<211> 320
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-045-Q1-E1-A10

<400> 2250

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agaagaccgt gcaattggtg atgtcagcag tgccaatgga gcacttgaag cggaagataa 120
tgtgaacaat agtgtttatg atcttgcagc tagtgggaag cggaaacgaa atgatctcga 180
caatggttct cagtttgcac caaatgccaa gaagcatcga atagttattc ccaaactgta 240
caaaactcat cagtggatga ttgtttcaac ttctgcgaaa actggcaatg catctcctgc 300
tacacagtgc tataacttcgg 320

<210> 2251
<211> 268

<212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-045-Q1-E1-A11
 <400> 2251
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 agcagcgggtg atcaggggaag cagtttaagt tgcagtgttg ctagtcgcta tgcataatact 120
 ttattatccc ttgctcgaaa agaaggtatt ttggagaaag tcaccaacga tgtgaagcag 180
 tttcgcactt ttgagtcgga tcatccgat ttcaagcgct ttttacaaga tcccacagtt 240
 ccaaaaggcg aaaagcaaca attattgc 268

<210> 2252
 <211> 232
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-045-Q1-E1-A12
 <400> 2252
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 caactatgta acgctaagcg gtgactcatc atgagtgaag tactggaaca acagtgatca 120
 cagaagcatg ttaggtatgg gtatagtaaa acccattgca gaagtataag caggaatctg 180
 cacaagaggg aaggcacatt ggaactgata aaccgtccag tcaagcaaat tc 232

<210> 2253
 <211> 288
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-045-Q1-E1-A2
 <400> 2253
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 ctgttatcca gcggataaaa agaataccaa tggcaaaactt cgtctcttat atgaaggagc 120
 tcccatggcg ttcttaatgg aacaagcggg aggaaaggct tcgacgggaa cagaaaatat 180
 tctggatatt cagccgcact cgatacatca aagaactcca gtgtttatgg gcagttatga 240
 agatgtttgt gatttagagt cttttttcaa gtctgcatct caataaag 288

<210> 2254
 <211> 395
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-045-Q1-E1-A3

 <400> 2254

gtagtttgtg tacgcggttg ggagagctag atatatttcg tcagagtttc gtagaaaata 60
 ttttgctaga ggcggagaga tgccgtgttg aggttggtcc atcctttaat gtccttctga 120
 acaggaaatt tagtgctaata gaagagttgt attctccaag tgcttggaaa gaattctatg 180
 acaaatatatt gtcagaagat ggaatatttt tacccaacag aaataattct gctggacctg 240
 acattatcgt tcgagtgtct gtgcctatag atgctagttc ttccactccc aagaagagac 300
 agtcttcttt gaccaagta tctatggata caagttccaa gaagagaaga gtctatttga 360
 taggcatagc attgaaatgt tatggaaagt ctggt 395

<210> 2255
 <211> 213
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-045-Q1-E1-A5

 <400> 2255

agcggacgcg tgggcaagca gtcagtgttg gtttcctacc gactatatca actagtttcc 60
 ccctaggaca aagtgaaggt tggcactgtt cccacgtatc taaatacagg gttgggcagc 120
 gttttgtcgc acgcaactgt cgtcagcttc ggcaaggaac aatcttgata atgtcaagca 180
 caagctcttc ggacaattgg aaacagcaga tac 213

<210> 2256
 <211> 402
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-045-Q1-E1-A6

 <400> 2256

aggggtggca gtgaagcatg ggatttgcag agttcgaacg ctcttatgag aagtatacag 60

gaggtgaccc atcgagaatg aaagtgtccg tggagaaact agacgaagag caggttccac 120
 ttcatagaag agactattgt gcacatttgt atattccttt gcgccgttgt ttgagagaca 180
 actatTTTTT gccgtggtct tgtgaggaag agaaggaggc gtataaccgg tgccaaagaa 240
 aagagagaag aagaagagaa cgactctata agaaaatcaa ggaagaggcc tccaaagtat 300
 cggcgacgga agaacaagat gaataatata gtgttggtgc gtcgtctttg tgttggaaca 360
 ataataactc ctcaaatagt aaacagcttg atttgatttt ca 402

<210> 2257
 <211> 332
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-045-Q1-E1-A9
 <400> 2257

aggactacaa aggaattgcc aatgcggatt ggaacataat ttacgacaag ttggaaaaaa 60
 tcgccgctaa aggtgccaaa gttgtactta gtaagttggc catcgagat ttagctacgc 120
 agtattttgc cgatcgagac atattttgtg ctggtagagt tccagaagaa gacatgaaac 180
 gtgtcatgaa agccaccggt gcaagcatgc agtctacagt gaataagcta actgatgatg 240
 ttctcggtac ttgcgcattt tgaagagaag caagttggta atgaacgtta caactttttc 300
 actggttgtc catatgctag aacagcgaca tt 332

<210> 2258
 <211> 284
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-045-Q1-E1-B11
 <400> 2258

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 aatatctgcg ggttttagact atccaggagt gggaccagag cacgcattct tgaaggatac 120
 tggtcgcgct gaatatgttg cagttactga tgaagaagca attcaaggat ttaaactgct 180
 ttctaggatg gaggggtatta tcccggccct agaaacagca cacgctgtag cctacttgga 240
 taaattatgt ccaacgttat caggaagccc caacatagta ctgt 284

<210> 2259
 <211> 181
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-045-Q1-E1-B12

 <400> 2259

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 tggagcaatg tcttacgtca ttcatagaagc ttattgtcaa ataaaggatg gccacgcaat 120
 atctgggggt ttatactatc caagagttgg aacagatcaa gcattcttgg tggatactgg 180
 t 181

<210> 2260
 <211> 388
 <212> DNA
 <213> Cyanidium caldarium

 <223> unsure at all n locations
 <223> Clone ID: LIB190-045-Q1-E1-B2

 <400> 2260

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 ctgcataaga aaagactaag attagtttat acaaatgaca gcaaactttg tatctttttg 120
 ttccctgngta aattttttat ctcccagtggt gttgtttgct gggaaaaggg ttgttttgca 180
 gatgtgacct tacttgagaa ggaaccaa atccactcct cgtactagtc tgtttgttaa 240
 gcggactggg gagaaacttg gtgaaacttt tcacttgat gttgtgcttg gtcgcctcac 300
 agtcgaatag gctctgaacc tgggtggagct attttgagca gagagccgat agtaaagaga 360
 cagtccccgcg ccctcatgga gaaatgct 388

<210> 2261
 <211> 392
 <212> DNA
 <213> Cyanidium caldarium

 <223> unsure at all n locations
 <223> Clone ID: LIB190-045-Q1-E1-B3

 <400> 2261

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aagtggtaaa ggtttaagaa aaggaggtgc aaagcgcat cgcaaagtct tgcgagacaa 120
tatccaagga ataaccaaac cagctatccg tcgtttggcg agaagaagtg gaattaaaag 180
aatctcacga cttaactatg aagaaacacg aaatgtcctt cgtgttttct tggaaagtgt 240
tattcgtgat gcagttactt atacggagca tgctcgtcgc aagacggtaa ctgctatgga 300
tgtcgtatat gctctgaaac gtcaaagccg ttacctttac ngatttggag gataaagcct 360
gcttgaacaa aggggtgtttc tcaacacctt tc 392

<210> 2262
<211> 393
<212> DNA
<213> Cyanidium caldarium
<223> unsure at all n locations
<223> Clone ID: LIB190-045-Q1-E1-B4
<400> 2262

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actagttatg cgatctataa ttctgtagt aatggctggt gtgctaggta tctacggtct 120
catcgttgct gttattttgg ttggacaaag tatgcggtgt cttttgagt aatagcacta 180
ctttgactct tttgtagttg ccgaaacgaa ctatccatat tttcttggct ttgcacacct 240
tgcttctgga ctagcaaacg gtctcagcgg tctggcggct ggaatttgta ttggtatagt 300
tggcgacgca ngcgtccgag ctacagctca gcagccaaaa ctctttgttg gaatgattct 360
catccttata ttcgccgagg ctcttgcctt gta 393

<210> 2263
<211> 375
<212> DNA
<213> Cyanidium caldarium
<223> unsure at all n locations
<223> Clone ID: LIB190-045-Q1-E1-B5
<400> 2263

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attggaaaac tttgaatgat tttcaaggcc tggaccccca aaaccgcca atgtcgcac 120

atagttggaa tcctaaagtg actcaaggtt ctcataagaa aagcaaaaaa cctatttcta 180
 tacgtaattg caagattcgt ccaggtatctt tattatggga agaagatgtt tctcgtgtgg 240
 ttcacttggga acgattatcc ttctattctt ctacaacgaa gcgtcccatt tcttttggttc 300
 ctgttacgag aaatagtcct cctaccgcta ttattgggtg atttacgatg caccgaggct 360
 attctgggaa tcaag 375

<210> 2264
 <211> 399
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-045-Q1-E1-B6
 <400> 2264

cgtttcgtcg tcgtcgattt ttccttcgac ttgggcgcca atcttcttct tcttcttaga 60
 atgaaattga atatcgctaa tcccgtact ggttgtcaga agcaaataga agtggacgac 120
 gaaagaaaac ttcgtgcttt ttttgacaaa agactggcgc aagaggtccc aggagacgct 180
 ctaggagacg aatttaaggg atatattttc aagatcatgg gtggacaaga taaggaagga 240
 ttcgctatga aacaaggagt cttgaccact ggtcgtgtaa gactcttatt aaagaaagga 300
 gactcgggtt gccgatggta cggatatgaga gacggtgaaa gaagacgaaa gagcggttcgc 360
 ggttgcattg tatctccaga tatagctgtg ttgaacctc 399

<210> 2265
 <211> 389
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-045-Q1-E1-B7
 <400> 2265

cccttccggg ttggttgggg caaccttgcc aacgccggaa gaacatccaa cggaagccc 60
 caccttgatc aacaccagga caaaattaaa tccattgaag gctttgttgt ggggaaaaat 120
 ttgtccccta tttccttcaa tataatcgtg gggttcatta tctaattgggt tggtgaaact 180
 ggtggttggga ttcctaccgt tgcagactat cgcgtattga cttcatttga aaaagaccaa 240
 ctgggaaagg aagctcagtt gcatcaggat agtgccctgag aagaagcaat gttggttggt 300

tgttgatgtg ttggtggtgg attgtgtata tatatagaga gagtgtgtgt gagagaaaat 360
gcttgctttg tgagtgaacca ctctctcaaa 389

<210> 2266
<211> 271
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-045-Q1-E1-B9

<400> 2266

gaccacgccg taagccaagc ctccgggttg taatccaagc cagggcaata tggaaacatc 60
caaactctggt tacaagacca gaagatttga gaatattctg tcagagggtga gtattggcaa 120
ctagtgtttg ggagtangca tagatgaata tgtctctctt ttttgttagg tcaaagaatt 180
ttatgaaatt caccgtcaac tccattccta tccgggtgga attcatttgg aaatgactgg 240
acagaatgtc actggtaagt aataacttgt g 271

<210> 2267
<211> 396
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-045-Q1-E1-C1

<400> 2267

acgggaattt ggtgttttca atatctcggg aggtttcagg gtagttattc aatcattgag 60
ttcctctata ttcaacgtca atacgtattg atcagaaggg aagaagagca tgtactgatg 120
gtgttctacc aactggacg ggggcattga tctcaaagaa gggcaaccac tcattagaat 180
gctgcaaagt tcttgccata gagcattgtt tgatttcgag gtttcttggc atcatagtca 240
taaaatttcg tcgaagtcca tcgcacagtg caagggtatc ctttaagtga atttaaggct 300
atttttattg cgacacggtc caagaaatca tagtgagacc tcccagagta aaacggagtt 360
aaattatcca aggtacccga attcgtaaaa agacaa 396

<210> 2268
<211> 327
<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-045-Q1-E1-C10

<400> 2268

gaccacgcg tcagcgaacg cgtgggcgga cgcgtggcg gacgcgtggg atgtggcgac 60
cttccaaatg ttccaacgaa gtttctcttg gctttacctt tttctttgcc acttgcgctt 120
cccaaacaag tccgtttctc tgtaaaaagc agagtaaata ggaaacatgt cgtttgtact 180
gtcgaatctg ttgggtccat ctatcaagct tcggatgtac gtaattccaa gacttcagaa 240
tggaaggctt tagaacaaca cgcaaagaac gttaactcaa agactcactt gagagatcta 300
ataactgacc cacaagatt cgaaaag 327

<210> 2269

<211> 301

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-045-Q1-E1-C11

<400> 2269

gaccacgcgt cagagtatga cgatgggtat tgaaagttcc aattcttcct caatcgagat 60
tgactcggaa gaactagaag gacattactg atatcgtcta atgcaattgc tagagaacgg 120
tcctgggatg agagcaggac tgagagtgtc tgaagacttt attattgctg tggatggctt 180
gactgtcgag gaagacgaag ataagatatc tgagtattta atgaagaaaa caccacaata 240
tgtcaagcta gtggtttgga actgtctgga tgaagatgaa agagacgttt ccttgttggt 300
c 301

<210> 2270

<211> 405

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-045-Q1-E1-C3

<400> 2270

cccgccctac ggtgttagaa tggtctagtg aacaactctc catcttacga cctggagcag 60
ttacagcaga agaaattgaa gcagttattc atatgcctgt ttccgtattt tcgtcatcag 120

ccactaggaa taggaacgat gtccaagtac ctcgagcacc agggatgaag tatcgacatt 180
 atgcaccaaa agcaccgctt gacttggtga aaggagatgt ggaacaatta agtaaaaaag 240
 tatgcgaatg gaagcaacaa ggaaagaagg ttggtttgtt ggcagtaaga gaatttggtg 300
 cacagataac atctgcagat gtgttcagag catgtggtga aaataactgt ttgtcaagtt 360
 atgccccgaga actgtataaa gctttgagag cattcgatga cagtc 405

<210> 2271
 <211> 376
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-045-Q1-E1-C9
 <400> 2271

gaccacgcg tcagcccacg cgtccggttg caaacgacgc atggaggacg atcatcgaat 60
 atgaaagcac tacaacaact tgttgcggtt caacacgata gctttttatc tcatcacaaa 120
 atgaatatat tttatatgcc ctcttcttct cattggaaaa agtcctcact caagtgggtct 180
 tttcctagaa tggcggcatc tgcctcttta tcttgtcatc aagtatttga aataaccccc 240
 gacaaacctg cagttgttgt cgaccaactt tgtgaatcat tcaaaataga aaagagtcgt 300
 gatagtaagc aaccttcccc tgtggaatcc gtgaaacaag tttccattgt tgccaaacaa 360
 cgccaagtgt ttgggt 376

<210> 2272
 <211> 76
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-045-Q1-E1-D10
 <400> 2272

cccacgcgtc agcccacgcg tccgcccacg cgtccgccca cacgtcagct gattcggttg 60
 cagatgcgtg atgttg 76

<210> 2273
 <211> 186
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-045-Q1-E1-D12

<400> 2273

ccggccgacc aagccgtcag ctacggacaa aaaaatgggc cttagtcccc ccggccctgt 60
tggttcaacg ggcccttttt gggaatcaaa ggctgggga ccttttgcca ctgaccccg 120
aaattgaaag aatgccaccc atgccaaca atccgggaat ggacaaagtc caaggatttc 180
cggaac 186

<210> 2274

<211> 360

<212> DNA

<213> *Cyanidium caldarium*

<223> unsure at all n locations

<223> Clone ID: LIB190-045-Q1-E1-D3

<400> 2274

agcccatatc aacgagtttt cttgaggaag tagtggttcc tccggagtca tcagaagctt 60
tctcacgttt gcagagagat ttagctatgg aacgaagaga gagtttgcca cgtttggaag 120
atcagaagaa gacgccccaa caaggacgtc ctacttgagg acctgatgaa ggtgtcggag 180
tcttctccaa cgcttcggac tttggtacga gcaaaataaa gtgtgtggaa tattggggtc 240
gtcaaagtcg catgttccaa gagtagaacg tgcgtnttgt gtctgttttg tgggtgaaca 300
acatttgttc ttgtctgaaa tagaataaca gctatgctac aactaagana actggtanac 360

<210> 2275

<211> 396

<212> DNA

<213> *Cyanidium caldarium*

<223> Clone ID: LIB190-045-Q1-E1-E1

<400> 2275

agcccacgcy tccgctttgt gctgcatagt gaaccctgtt attggtgaaa ttacaagtt 60
gattatagag gcaatagaaa agtatactca actacctcca cgtgcttatt tcttcgtccg 120
atatagtatt gaagttgaat ctgttctttt ggggtgtttg gaaagacttg cagaagagta 180
tttggtatca cctcaagcga gaatagacgc agcaaagggt tattgggcat cgttgaatgt 240
tgtttataga tattttgccg agttgtatga acgttccata cactttcctc ccatgagaaa 300

gccttcttct atgcaatatt tgaacactcg agtgtatagg ccactttcac acgagattgt 360
 atacgaagct gatgagttga cggatcattc tatctc 396

<210> 2276
 <211> 227
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-045-Q1-E1-E11

<400> 2276

catggactcg agtacattcc tccaagacaa caaagacaag catctattca ctcttccgac 60
 aatgaatgga agacacctaa gtggcagcgg tggcgccaaa gtacttgctg tctcatggca 120
 cttggttaagc ggcacgttgc agatgttttc catcgatcatg aatggaagcc gctgtgttgg 180
 ggaatcttac ctattttgtg gtagctcatt atttatgaaa tctccgc 227

<210> 2277
 <211> 228
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-045-Q1-E1-E12

<400> 2277

cacgccgtca gggaaaatac gggaaacaat aaaaaaaaaa gaaaaaagga aaaacttaat 60
 tacaaggaaa aaacaaggaa taaaataaga aaaaaagatt aaaggaatta gaattagaaa 120
 aagaataaag ttaattaaaa caaggaaatt attgaaaaaa aaaattttta accccttacc 180
 ttttgcaaaa gttccaacca attgaaaaag gaagcaaaat gaaagaaa 228

<210> 2278
 <211> 399
 <212> DNA
 <213> Cyanidium caldarium

<223> unsure at all n locations
 <223> Clone ID: LIB190-045-Q1-E1-E3

<400> 2278

agccaaagga ctggttgat aaggaatatt tagaacagct acagagttgg atgaagaacg 60

gaagtactgt cgtggtagct gccatagacg atactccttg cattgcattt cgcgtcgatg 120
atgagttgag accggaagcc aaacaagttg tttcgttttt tagagaaaag cacaaaatgg 180
agtgttggtt agtaaccggt gataacgata gactgcatt tgcagtagcc agagcagtag 240
ggattccgat ggagaagggtg gtttctcaag cgttgctgn ggataaagtt aaagttgtag 300
aaagtttatt gcagaaatat caaagtgcaa caggaaaggc caagtctcga gtcgtatttg 360
ttggagatgg agtgaacgat ggtcctgcat tagctgcag 399

<210> 2279
<211> 404
<212> DNA
<213> Cyanidium caldarium
<223> unsure at all n locations
<223> Clone ID: LIB190-045-Q1-E1-E5
<400> 2279

agcccacgcg tccgtataaa acggccgatg gaaggttaat aaccggttcc aaggaaaaaa 60
ggtgtttaag gttgggggtt ttggtatgcc aatggggata atatgttggg aaaccgtggc 120
caatgttggt gaaaattgca ccgccaaggt taccctcggt aagttgggac aaggacaagt 180
ggcaatgtcc aatttctatt tcgactttgg gaagtaatgt aggagactca atagttcatt 240
tcgtgttgca taatatcacc agtgttggtt catcttccag tgcactgaga aggtttgcca 300
accatttang agtagtatcc accgaatatt gtgtttatgg gtttgaagga aatccagtgt 360
tcaacgatgg actgaaaaag ttggaacagt tattgcaagg atat 404

<210> 2280
<211> 294
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-045-Q1-E1-E7
<400> 2280

agcccacgcg tccggaatga agcatgcatc atactgcccc aatacattat agagtaagac 60
atgcaaatca tgatatttca tcggatatct aatcagggtct acaaaagtgg caatatctat 120
gggcatagaa aaatgtacga tagtgggtaca gtaaaagtta taccggaagt aaaaacctga 180
atctgataag acgaaaacta cattgggact gataaaagggt ccagacttga gaagtcaaca 240

atgtggacaa tttggcaatg tatagggaaa tatcacccaa taatgaagac taga 294

<210> 2281
 <211> 413
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-045-Q1-E1-E9
 <400> 2281

accacgcgtc agggatcgtt ttgtacttga aaacagagac actgtcagtg cgttgaagcc 60
 gataaagggtg taagtcaaag tcaacagttg cacttgcaga gacactttca ttgtgttgct 120
 ctcatggaat aactttgacg aaagagaaga ccgattattc tcattcgttg aggattttgg 180
 ttgtacagct tccttacagc gaacttgagt ttccaggttc ttctcttgaa gtgcctgatt 240
 cacaagacga tgtagcttat ctgtttcctc ttgtaatcta tggaatctct tttttgtctg 300
 taagaactca tcagcaacaa aaccgtacat ttctgcagta gttgggttct ctagaatctg 360
 cgttgtaatt agcgcttgaa gtccagataa aaaactctaa atgcctacgt ttc 413

<210> 2282
 <211> 272
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-045-Q1-E1-F1
 <400> 2282

agaaaagaac taagattcat gtaagggaaa caagaaggaa caacttgcgt ttaatcccca 60
 tggaaggac ctccaactta gaactaccct tggaagttt ggcaccagat ttttgtttac 120
 tggaacccaa gacaaactcg tatgtgtctt tgctggagtt aatattcaac atggcaaaag 180
 gcttcttgta gatttcatgt gcaaccattg cccttttgta aacatgtgtc tcaaaatatg 240
 ggccaaatgg gtatagatct taaaagtata aa 272

<210> 2283
 <211> 315
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-045-Q1-E1-F11

<400> 2283

accacgcgtc agctagaaca tcagggttgaa atgcctgaag aacgttccaa gagaaacaat 60
ggttggtcac aaaaaggaca gcgtaacaa caacagcacg atatttgaac taaccttttt 120
attgagtggg accacaaaga accatcgcaa ctaaattgact gttgcaatat gtaacgaata 180
accgatgcag tattcacgga attgcaaatt aagaagcaaa tagaatgaca tagaaataac 240
caagtaagac ccgaagctag ctgatacataa gctgtcccag cgaagtaagg ctgaaccaat 300
aactgttgaa aaaga 315

<210> 2284

<211> 154

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-045-Q1-E1-F12

<400> 2284

tttggttgct aactgttggt gtccaaccat gaatatggca acaattcaac aatccaacaa 60
tcatattaag gggtaagggt ttaactaaaa agtataataa atataacaaa ttaagggtta 120
ataaaacaac tcgaaaaaaaa taatttttgt ggtg 154

<210> 2285

<211> 385

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-045-Q1-E1-F3

<400> 2285

agcggacgcg tgggcttttt cggcgatttc cgtgtacat gatgtcataa tgttaggcta 60
taaaatgatt gtagcgagggt gtttatttgc agcttggttg ttgggactaa cttgggttata 120
tagaaccacg tgttgtagac ttgacaaga tccactctaa tagttttctg ttcctgtaag 180
tgttctaaaa attatggatt tcttcgctgt catgcgttcc agaaagggtt tctgtcacct 240
ccatttgtag tgtatacatg cgacattgct tgttccacct ggttttttga cactataaag 300
caattaaaaa tgttccactc caaaaaaaaa ggcttgaagt tgattttgaa taaaaagcgt 360
tttaaacttt gtgtcaatag acaaa 385

<210> 2286
 <211> 108
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-045-Q1-E1-F7

<400> 2286 -

ccagaatatg atgtcataat gttacgctat aaagagaatg taaccaaggg tttatttgca 60
 acttgtttgt tgggactaac ttggttatat agaaccacgt gttgtaga 108

<210> 2287
 <211> 311
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-045-Q1-E1-F9

<400> 2287

gacccacgcg tcagaggatc tgaatatttg tattttgggt tgcaactcca acgtcacaca 60
 tcaactgagt ggctcggaat atcctttaag aaagcaacaa tgcaaggacg ctgtaaccgt 120
 tttgcaatcc atcgacccaa agataacgaa cttaagagat gcgactatgg aacagttaaa 180
 tcaagtgaaa tacaaaatga gcgaccttgc ttatcgacgt gcacgtcatg tgatttcaga 240
 aaatgactgc acttgtcaat caaccaaag cctaccaaag aatcaataat acactggtag 300
 caaactcaat a 311

<210> 2288
 <211> 309
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-045-Q1-E1-G10

<400> 2288

gcgtcggttc tgttaagtta cggcaaaagg tggtgacaca aaagcaaaca gtaaacagat 60
 aacaagaatt tttgcttgct caaaagaaac aagcataacc atgcgtgggt ggttggtaca 120
 agaacgcggt tgagcttaaa ctgttaaccc ttgttcttct gactgtataa agagtcttat 180
 tcttcgtagc tcagtcacaa gccgagtttt cctgtcacct aaaaattaga cattctcagc 240

tgtccttgtc cttttttgaa agtgaatata agaatacacc gaggaacttt tacacgccac 300
aagaacgac 309

<210> 2289
<211> 247
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-045-Q1-E1-G12

<400> 2289

gatattgatg atcaatgggt aataaccaga ataagaaatc ctcccaactt ggtgaaaggg 60
tttccaacca caattaaaac tccttggggg aaaatccaac cttggggaag gaaaaattcg 120
gcaactttgg acggaaatcc aacttaattc aaaaccctt tcaagaattt ggtgaacatt 180
taacggcaag gttccaaccc aaagctttcc ttcattggtg aactggagaa ggaatggaca 240
aaatgga 247

<210> 2290
<211> 399
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-045-Q1-E1-G3

<400> 2290

aggttggagt atgagtggga agataccaac ggaggacgta ccagaccacc cgtttcttan 60
gagaaatggt tactggacgc cttggccacg cttggctaaa ctcattccta acgaaagggt 120
tcgagttatt ggaggcggtc tgactataat ggcgttaagt ggtgtgatat tctacactga 180
actgcaattc cggagaccgc tgccgaccct gactccggag tggattgaag cagagcgctc 240
caaagagttt gcaaaggagc gagagtcggg cccgccagtg gagcttgatc ctatcttgca 300
caggcggtggc tatcaccact agatagttcg attatttcag tgatttggtg gcagaacagt 360
tgttgaggtt tgtgtgataa aataaaatgc ccaaagatg 399

<210> 2291
<211> 399
<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-045-Q1-E1-G5

<400> 2291

agcccacgcg tccgggtccga cataacaacg tagttccgaa cggtcacttt cataaggact 60
ggcaaagaag agtgaaaaca tggttcaatc aacccatgag aaagaagaga agaagattag 120
ctcgtcagaa aaaggcagca cgtttggctc ctcgtcctgc caaagggtcca ttaagacctg 180
ttgttcactg tcctacagtg aaatataata caagagttag actgggaaga ggttttactt 240
tggaagaatt aaagcaagcc aaaataaacc cagcattcgc gcgaaccatc ggtattagcg 300
tggaacccgag acgaaagaat cgttcggtag agtctttgga gactaacgta caacgattga 360
aggagtacat gtctcgactt gtgttggtcc caagaagac 399

<210> 2292

<211> 400

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-045-Q1-E1-G7

<400> 2292

agaacagcaa caatgttgaa taacttagtg tgagcgactc agtccatata aagaatcgta 60
agttttgtag agagtataaa ctgttctttc ttcgcgatat tgtccaggca gtatgaacga 120
ttcccgagaa ttgcagagaa ggtatactgg tcttatgtcg acatctacac gtaaacttcc 180
ctgtcctcaa gggacgagct tttatgtgag aagctaactc ctgttcggtt ggatctatgc 240
taattgaaag agatcagaac acagtctgaa tcgtggaact cgaacaggac cactcgcttt 300
gtacggaaca cacggaata gtttgtaa atgcttagca ctttgaagaa aactttctcag 360
tggcagacgc agtattcaat gttcccggtg tagtgaattc 400

<210> 2293

<211> 405

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-045-Q1-E1-G9

<400> 2293

accacgcgtc agcgagtcga tcaactggttt tggatgaagtg ttcttcgttt catgtgaaac 60
 tttttgttat caaattcatc taatcacctc tttgggttgc aagtggatgt gttatcggtg 120
 cttgtttgtt tgagaagcat aactggtttg tttcgatcatg acacaatttt cgtgtgaaag 180
 ctttcctttg tagatcctgc tttacgattt ttcacctgtt cacttttttg tattcagtat 240
 cctcatcacc agaatacata cttaaagtttc tggacgagtt taacatctct aacaattctc 300
 cgtatcctac cgcaactcat gggaacaatt gcagcatgta aatgaagagt tgtagacttt 360
 aatcaatctc caagcaggaa ttggtagccc cttaaagact gggcc 405

<210> 2294
 <211> 397
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-045-Q1-E1-H1
 <400> 2294

aggaattccc caaaaggaaa tggccaatt gaaaaccctt ttgaatgaaa ccacaaattc 60
 tcccttaatt ggccccaacg gccaaaggctt tttgaagcct aatgagtgtg aaattgggtat 120
 tatgccgggt tatattcatt caccgggttg tattggagtt gtttcacgtt cgggcacgct 180
 tacatatgaa gctgtggatc agacgacgag acatcaactt ggtagagca ttgttatcgg 240
 aataagtggg gatccttttc atggaacatc ctttatggac tgttttgata tgtttttgaa 300
 cgatccgcaa acgaagggca tcgttatgat tggcgagata ngtggtactg aagaggaaga 360
 aactgcggaa ctgctgaaga attcatccat aaagaaa 397

<210> 2295
 <211> 92
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-045-Q1-E1-H10
 <400> 2295

agaagattgc ttcacagat ccgcggtgga ggcacgaana cacaagttga gaaagcttgt 60
 accgagtcac aaactcgttt ttcacggac tc 92

<210> 2296
 <211> 137
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-045-Q1-E1-H12

 <400> 2296

 gcccgggccc aaccacaag gcaaagtggg ccaaggaagg ggaaaaagaa ggcagtaatc 60
 aaagacggga aaagaaaaag gcaacggccg ctttttccta aaaaacaaag ccaattttcc 120
 aagtggcaaa attttgg 137

<210> 2297
 <211> 366
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-045-Q1-E1-H3

 <400> 2297

 agcccacgcg tccgggcatg ttgccccttt ggctccgggt aaccaatta cagaaacctt 60
 ttgaccaacc aaaaacggtc caatttgaaa aaatttatat atagtgtgat attttgaaga 120
 cttgtaatct attggtgctg ttctttcgca actagtgcaa aaggaagcaa gcgctatcta 180
 gtgtcggtcg tattcagttg gtttataagc ttttggctctt ttcttccgtt gcaaattggt 240
 gatacttttt gatatgacta gagataaaga ttgggaggtt atgacaagta tcttggacaa 300
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<210> 2298
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 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-046-Q1-E1-A1

 <400> 2298

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cataaccggt caagtgcgaa ttcgaggctt tagggctatc cttattttgg ctatagcttg 180
gttctcgctc cacatcaaaa ttccaaacga tagtaaaaac acatagtttg gcatccgctt 240
gaatctttca ataccctat catatcattg taatgaacga ttttgagttg ttttactggg 300
gtggaaaatc agaaggaaca atggtttcta cgacagaaga atatcgcatg gatcaactac 360
aatgaacat gattgggaac tcttttgaaa cgctatgaca taggatatac 410

<210> 2299
<211> 426
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-046-Q1-E1-A3
<400> 2299

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acgcaacgta tttacaaccg tcacctcgca actccaagtg tgggcctcac aaagttctaa 180
agtatattca gcagcgtctc cgtgcgaaag agtggccggt tgtcctgaaa gctttgctgt 240
tatgtcatat cttactggac gaacgcagta caggaatggt ggatcttttg catcacacgc 300
cttttatcat taacctgcaa gagtttcgtg atgcttcaa cccagtgct tttgattatt 360
cctcatatac aaggctgttt gctcgctatc tccaagaacg aattgttact atacgaactt 420
tgggtg 426

<210> 2300
<211> 430
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-046-Q1-E1-A4
<400> 2300

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aatgccttct ttcggtagat ggttatggtt ttcgagagga atagactttt cttcatggt 180
tgtaggagac tggggaagag aatgacatca tcatcagaag aaagtagcca acgctatggc 240

tgtagtcgct cgacagacca atcctcgctt tattatcagt acaggggata acttttatga 300
 ctatggagtg tcttcagcaa gagacaagca gtggaatagt tctttcgaaa gcatatatga 360
 tagttggttg aagaatattc cttggtacgc tgtcttagga aatcatgacc atttggtttg 420
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<210> 2301
 <211> 410
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-046-Q1-E1-A5
 <400> 2301

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 aagtcacgt aaagttgctc taagaatact gataaatgtc acgcaaccaa caagttgttg 120
 ggtatgggag cacggataaa acaagcccgc aagtgatgtg tactgaaac agtggcgctg 180
 ttgctggctc cttgcgtggc gcccaaccacg aagacgaagc tttggtggaa gcctggattc 240
 gaaaagcttt ttctttgttc gaccaagacg gaaaaagtta tgtggatagt gtaaactttg 300
 cagacgatat ccagcacttg tttcccaact gttaggaaga agaagtcgaa gagttgctgg 360
 aagacacgga cccaacggt gttggagttg tcacttttga caacttttgt 410

<210> 2302
 <211> 401
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-046-Q1-E1-A8
 <400> 2302

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 gacgaaatca accccttggt ttggtggtca gatgaagatt tactgctgtt acaaggcagt 180
 ccaactttat ctgcttggtc gcaactgaga gaaaaacttg tgagagagta tacatatcta 240
 gagaaccata ttattccaca aatcccgaac ctggcccgtg tagactttag acaatttcag 300
 tgggcatttg gtattctttt ttctagagct atttgttttc ctagtacgaa gagaattgca 360

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401

<210> 2303

<211> 246

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-A9

<400> 2303

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cctgagactt gtccgatgat ggaagacgtc atgctgccga acaccatatg ccgcagttga 120

agaatacagt ttatcgtatg ggagtgaccg atgatgagat tactgtattg agtgggtgcac 180

atactttggg gcaatgtcac agtgaccgtt cacgttatga aggtccatgg acacatcaac 240

ctttgc 246

<210> 2304

<211> 222

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-B12

<400> 2304

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atgacaaaaa aaaaaaaaaa aaaaaaaaaa gagaaaaaca aaaaagatca taaataaaaa 120

aaaggggtgga tgcacaaatgg ggtgcaagtc ttatttccgc gtgcatgaga gtcattact 180

cttcaatttt gtcacctagt ttcagttcgt caggcagtcg tt 222

<210> 2305

<211> 170

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-B2

<400> 2305

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ttaccccaaa atttgaatt tgggctttgg ttggccttgg aaactttgat taaaaacaag 120

atattgtcca gttcctgcac tgaataaaca gtgtgtggag aacaaccttg 170

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<210>      2306
<211>      429
<212>      DNA
<213>      Cyanidium caldarium

<223>      Clone ID: LIB190-046-Q1-E1-B3

<400>      2306
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gtagaaggaa	gagctagaga	aggtggattg	cgctttggag	aaatggaaaag	agattgtatg	120
atttcacatg	gagcggcatt	cttcttgaaa	gaacgactga	tggatgaatc	cgatgcttat	180
cgtattcatg	tgtgtaatat	gtgtggattg	attgcgatag	ctgatttaaa	aaggaatact	240
ttcgaatgtc	gtagctgtcg	taacaaaaca	gaaatatctc	aagtattcat	tccttatgcg	300
tgcaagttgt	tgtttcagga	actcatggca	atgggtattg	caccgagaat	tgtaactgct	360
gatgaataag	tcttcttctc	attccaactc	atcccaccat	tcactatctt	cttcgggata	420
ttaccaacg						429

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<211>      406
<212>      DNA
<213>      Cyanidium caldarium

<223>      Clone ID: LIB190-046-Q1-E1-B4
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gtaccaactt	gaatattcca	ttgtatcaag	atagtgcaca	tggaaccata	gctgcgttgt	180
ggtatatgtt	ctcgggattt	gcgatatgtt	ggcttatcgt	cgtcatgttt	tggtttttca	240
gacgcaacaa	tgccgtggga	atatattgtc	gtacggacaa	cgatgatgca	tcctactagc	300
agtgatagta	atagtaatag	tagccaggga	aatacagaga	gagaaagatg	ggcaagcaac	360
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<210> 2308

<211> 355
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-B5

<400> 2308

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agcaatacaa ccacgtgata tgccacctat agctagaagt ttagatgttc gttctttttcc 180
agtattttat ttgtttttac gcggaacaaa agacaagcct attcgatggc tggcggaaga 240
tcgaaagcat cttgaagcgt ggatcgacac atatcgagag aagaatgcac aaggcatcga 300
ttcctcgtat tcaaaatagt caagtttatg tatatcagaa taaacaacct tatgg 355

<210> 2309
<211> 401
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-B9

<400> 2309

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cggatctaag gaagtttagca accaacttga ttccatttcc acgtctacac ttcttcatga 120
ttggattcgc acctttgagt tcaccaggct ctcaacaata ccgttctgct agtggtttctg 180
agctgactca acaaagtgtt gatgcgaaga acatgatggc agcatgtgac cctcgtcatg 240
gtcgttattt aacagctgct gcgtatttcc gtggaaatat gtccacgcaa gatattgatg 300
atcaaagtgt taatatccag aacaagaatt cttcctactt tgtagaatgg attccaaaca 360
acattaagag ctctttgggt gagattccac ctttgggtat g 401

<210> 2310
<211> 422
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
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<400> 2310

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ttcaacgaca aagggatgag aggttggaag agttgcgcaa taaagtacac gcaagacaag 180
aagaaagaaa gcaaggagat gagcaacggt gtttgtcagg ggaaaagaac gaggaaccag 240
ctcggagtgt gaatacaacg ataaagacga ctttgaaaga aagtttaaag gttccttggt 300
attcgggtact cgataaagtg gaaaacaaaa cctcaaccat cggagacaag agaggaagac 360
ccgattgtca aaatacgaga gtgggagaaa caacanaacg ttatacaca ggaagaaaag 420
cc 422

<210> 2311
<211> 351
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-046-Q1-E1-C10
<400> 2311

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tattattacg caagaaatgc ataacaggaa aatgtcgaga gaagcgtata aaagagtagc 120
tcttccgcag aaaaatctga tgcgggtcga ggggtatttc gcacgtacta ctattatgag 180
actectacat attattacta ttatgagact ccgacataat attactatta tgagactcca 240
tccgcaattc cgaatataaa tccttattgt acctataccc aaatgtgtca gagtatatgc 300
acgacttgtc caactccata ttaatagtcg tatgatgggt aagatcatat g 351

<210> 2312
<211> 369
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-046-Q1-E1-C11
<400> 2312

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tcgaaagtaa tcaacacgtt gctgtcatgg taaccgaaga agacgaatca ccaactatag 180

tgggtgtgaca caatagaaga agatatggca tgcgatttga ttcacttgac aggtcaacca 240
 atagcgactc caatgtcacc atcagaagta cttttggttaa cttccgaatg ccatacggtg 300
 acaacatata gactaccgat gaaccttgca gaccaaatat gcaacctgca acaaatatgg 360
 tagctgcac 369

<210> 2313
 <211> 431
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-046-Q1-E1-C4
 <400> 2313

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 acgactttct agtagtggtg ctttacaatt ttggaagcca aagtgcgatt caaaccagtt 180
 ttgttcttta agctctcttt ggtcgaatga acaagacatt tctagtagaa acaccgacat 240
 gagagtatgt attgaaagag gatatttagt ggagttgatg ggtgagggat tgtctgtttg 300
 tatgcgttgg attatctcgg aatatattca ctacttgag gagactccac aatcctattc 360
 gtttctcgt attatttata tcgatacttg tgcaagtcta agtattatga aatggaacga 420
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<210> 2314
 <211> 422
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-046-Q1-E1-C5
 <400> 2314

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 gtaaagaagg tttgacaggt ttggtaagta cttgggggggt ttgaaaggct cgtagttttac 240
 atgcagcaat agagttcaga gatagttatt caaagaatag cagaaaaatt ggcaaattta 300

aaaaaaagct aaagtcccag agcttttcgg aggctttgaa agaagaaatg aagcgaacta 360
tgaagaaata gtaggaaggc ttagaaatag taggaaggat aagaaatagt ttgtataaaa 420
ag 422

<210> 2315
<211> 424
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-C8

<400> 2315

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gagtattata ttccatgccg attggagact ccatttatga tgagcctgga tcacatttgg 180
tagaaaatat tatgaaagaa gccaaagaaa gaaatgtaaa gatacatttt ccagtagatt 240
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gtattcctga gcatatgcaa ggactggatt gtggaccaca aagtattcaa caatttattc 360
aagtagtgca acattgtaat acaatagtgt ggaatggacc tttgggtgtg tttgacatgg 420
atat 424

<210> 2316
<211> 407
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-D11

<400> 2316

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ggttggcatc cgagagcaac aagacttttg ttgcacgata tcagccacag tttggtaccg 180
attagttgct catcaattag taggtccaat caccatgaga ttgtctaata ttggaggctc 240
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acgttgacac agctatcaat atcacatttg tagagttacg aactcaagat tggcaatata 360